Whole Life Carbon Comparison Study

Radlett House

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Document information

Document prepared for
Rundell Associates

Date of issue
03/05/2024

Issue no.
2

Our reference
10605- Radlett house -WLC-RICS-S2 -2404-18 HA

Document prepared by
Hesham Ahmad

Quality assured by
Yiota Paraskeva

Disclaimer
This report is made on behalf of Eight Versa Ltd. By receiving the report and acting on it, the client - or any third party relying on it - accepts that no individual is personally liable in contract, tort or breach of statutory duty (including negligence).

Contents:

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Executive summary

Introduction

Eight Versa has conducted a comprehensive Whole Life Carbon Assessment (WLC) for Radlett House, evaluating two distinct scenarios. The initial planning applications, endorsed by the Camden Council in March 2012 (Application Ref: 2011/5102/P) and November 2022 (Application ref: 2022/2773/P), proposed extensions to the house. This report presents a comparative analysis between the Approved Extension and New Construction proposal for Radlett House.

The results presented in this report are in line with ISO 14040:2006, ISO 14044:2006, and EN 15978:2011 standards. The methodology followed is also aligned with the RICS's Whole Life Carbon Assessment for the Built Environment Professional Statement, 1st edition.

The purpose of this report is to provide insight into the development's environmental profile by measuring the carbon emissions over its entire life span. A comparative whole life carbon assessment has been carried out for an Approved Extension and a New construction scenario for the development considering both the embodied and the operational carbon emissions. The analysis also highlights carbon hot spots, which could potentially be a focus for carbon emission reduction measures.

The site is located within the London Borough of Camden and specifically within the Primrose Hill ward. The property is in the north-western corner of Radlett Place, on the south-western edge of Primrose Hill. Radlett Place is a gated, privately owned cul-de-sac leading from the busy thoroughfare of Avenue Road. The site is bound by residential properties to the north (fronting Elsworthy Road), south (fronting Avenue Road) and east (fronting Radlett Place).

The site currently comprises of a two-storey dwelling house, plus habitable roof level accommodation. The initial planning application Ref: 2011/5102/P proposed excavation of a basement beneath the main house with front and rear lightwells and a two-storey basement link under the garden between the house and the previously approved swimming pool outbuilding, and installation of air conditioning unit and enclosure in garden, all in association with the use of the single-family dwelling (Class C3).

The second application (Ref: 2022/2773/P) comprised of creation of a crown tiled roof / attic floor above two storey rear projection of dwelling (Use Class C3) including no.5 dormer windows and linked walkway to existing loft.

The GIA for the extensions proposed in the above application is 1,530 m^2. The total area of the scheme with Approved Extension and retention of existing structure is 2,393 m^2.

The New Construction proposal comprises of demolition of the existing two-storey dwelling house, plus habitable roof level accommodation and replace it with a high performing house. The total GIA of the proposed New Construction scheme is 1,935 m^2.

The WLC assessment includes a comparison between the following two scenarios:

- Approved Extension scenario: The main house is retained as it is, no improvement in internal finishes or energy performance are made. And the scope from the two planning applications Ref no: 2011/5102/P and Ref no: 2022/2773/P has been added, which mainly comprises of excavation of a basement beneath the main house and a two-storey basement link under the garden between the house and the previously approved swimming pool outbuilding and creation of a crown tiled roof / attic floor above two storey rear projection of dwelling and linked walkway to existing loft.
- New Construction scenario: all existing building materials on site will be demolished and newly constructed.

Summary of results

The carbon emissions of the Approved Extension and New Construction scenario are approximately:

Carbon emissions	Approved Extension scenario	New Construction scenario	% diff. for New Construction
Demolition emissions from existing house (C)	0 $kgCO_2e/m^2$	29 $kgCO_2e/m^2$	
Upfront embodied carbon (A1-A5)	555 $kgCO_2e/m^2$	544 $kgCO_2e/m^2$	2% ↓
Whole life embodied carbon (A-C, exc. B6 -B7)	742 $kgCO_2e/m^2$	729 $kgCO_2e/m^2$	2% ↓
Total whole life carbon (A-C)	1,080 $kgCO_2e/m^2$	823 $kgCO_2e/m^2$	31% ↓

At the time of practical completion (year 0), the New Construction scenario exhibits a modest (2%) reduction in embodied carbon compared to the Approved Extension scenario. This difference arises primarily from the carbon emissions from demolition of the existing building offset by the increased carbon embodied in the larger, double-storey basement of the Approved Extension scenario. Moreover, it's important to note that the Approved Extension scenario presents substantially higher operational impacts than the New Construction scenario. This difference ultimately results in a significant 31% reduction in total whole life carbon emissions over the entire 60-year life cycle when opting for the new construction over the approved extension scenarios.

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Methodology

Life Cycle Assessment

The WLC assessment has been undertaken using 'One-Click LCA' building life cycle assessment software with the following principal data sources:

- Design and quantity information provided by the design team available at RIBA Stage 2.
- Energy consumption data provided by Eight Versa.
- LCA data source(s): One-Click LCA (GLA/RICS)

The results presented are global warming potential. [GWP, kg CO_2e]

Life Cycle Assessment (LCA) is a method for assessing potential environmental, resource and other impacts of a system including products, buildings, events and services. A LCA can provide cradle-to-grave results of the system including upstream and downstream factors. A graphical illustration of typical LCA stages is shown in Figure 1.

Buildings are a significant source of carbon emissions globally. These emissions occur due to construction products and activities as well as consumption of energy and water during use.

The environmental impact of a building can be reduced by designing for lower energy consumption and by consuming less construction products by opting for refurbishment over new-build and by integrating material efficiency design approaches. In addition, products that have a lower environmental impact should be selected.

Existing buildings are responsible for a major share of energy use and greenhouse gas emissions. Refurbishment of existing buildings may improve operational energy performance but will likely cause environmental impacts due to the newly installed construction products and components added to improve energy performance. However, new buildings, while potentially more energy efficient, typically use more construction products and therefore often have higher upfront construction carbon emissions compared with refurbishment.

To address these trade-offs and establish which approach will have the least environmental impact, it is essential to take a life cycle approach. Conducting an LCA will provide insight into the development's environmental profile including appraisal of options under consideration by the project team.

Figure 1: Stages included within an LCA.

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Study Boundary
To undertake a WLC assessment of a building, different aspects need to be considered at different life stages. What is and is not included is referred to as the scope of the assessment and different methodologies call for different scopes. This assessment is based on the assessment of

- All construction elements present in documents from previous planning applications and proposed New Construction.

The following life stages are included in the scope of this assessment:

- A1-A3: Product stage – raw materials supply, transport and manufacturing
- A4: Transport of the products to the construction site **[More information on Page 7]**
- A5: Construction of the building
- B1-B5: In use emissions (repair, replacement, and maintenance)
- B6a and B6b: Operational energy use
- B7: Operational water use
- C1-C4: Deconstruction/demolition, waste processing and disposal
- D: Reuse, recovery and recycling potential

The scope for the assessment for both scenarios is consistent and includes the following:

RICS Cat. and Building elements	Inclusion Status (Extension)	Inclusion Status (New build)
0.0 - Demolition	Not applicable	✓
0.0 - Excavation	✓	✓
1.0 - Sub structure	✓	✓
2.1 - Frame	✓	✓
2.2 - Upper Floors	✓	✓
2.3 - Roofs	✓	✓
2.4 - Stairs and Ramps	✓	✓
2.5 - External Walls	✓	✓
2.6 - Windows & Doors	✓	✓
2.7 - Internal Walls	✓	✓
2.8 - Internal Doors	✓	✓
3.0 - Finishes (Wall, floors, and ceiling)	✓	✓
4.0 - Furniture, fixtures, and	Data not available	Data not available
5.0 - Building Services (MEP)	✓	✓
8.0 - External works	Data not available	Data not available

In both cases, fittings, furniture, and fitouts (FFE) and external works have been excluded from the assessment due to unavailability of the information.

Study Period
The study period for this project is 60 years.

Assumptions and Standards
The following data has been used for this assessment:

- Supporting plans, elevations, sections and build ups for planning applications, endorsed by the Camden Council in March 2012 (Application Ref: 2011/5102/P) and November 2022 (Application ref: 2022/2773/P).
- Where no or insufficient information was provided, Eight Versa have endeavoured to use reasonable assumptions.
- CIBSE Guide G (Good practice) water consumption data for domestic/residential.
- Average transport values for the UK, according to One-Click LCA (GLA/RICS) database
- Estimated operational energy consumption data provided by Eight Versa based on SAP calculations.

The software used to undertake the analysis is One-Click LCA, which complies with:

- ISO 14040 2006: Environmental management – Life cycle assessment – Principles and framework
- ISO 14044 2006: Environmental management – Life cycle assessment – Requirements and guidelines
- EN 15978 2011: Sustainability of construction works. Assessment of environmental performance of buildings. Calculation method

A detailed schedule of items included in the assessment is presented in the Appendix.

Whole Life Carbon Comparison Study
Radlett House

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

The scheme

Description of Approved Extension scenario

The site is located within the London Borough of Camden and specifically within the Primrose Hill ward. The property is in the north-western corner of Radlett Place, on the south-western edge of Primrose Hill. Radlett Place is a gated, privately owned cul-de-sac leading from the busy thoroughfare of Avenue Road. The site is bound by residential properties to the north (fronting Elsworthy Road), south (fronting Avenue Road) and east (fronting Radlett Place).

The site currently comprises of a two-storey dwelling house, plus habitable roof level accommodation. The initial planning application Ref: 2011/5102/P proposed excavation of a basement beneath the main house with front and rear lightwells and a two-storey basement link under the garden between the house and the previously approved swimming pool outbuilding, and installation of air conditioning unit and enclosure in garden, all in association with the use of the single-family dwelling (Class C3).

The second application (Ref: 2022/2773/P) comprised of creation of a crown tiled roof / attic floor above two storey rear projection of dwelling (Use Class C3) including no.5 dormer windows and linked walkway to existing loft.

The GIA for the extensions proposed in the above application is 1,530 m2. The total area of the scheme with Approved Extension and retention of existing structure is 2,393 m2.

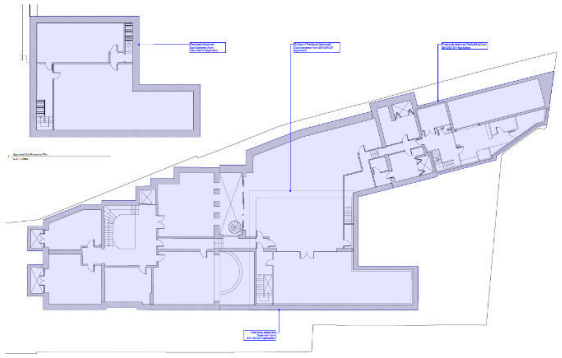

Figure 2: Plan view of basement for the Approved Extension scenario.

Description of the proposed New Construction scenario

The New Construction proposal comprises of demolition of the existing two-storey dwelling house, plus habitable roof level accommodation and replace it with a high performing house. The total GIA of the proposed New Construction is approximately 1,935 m^2.

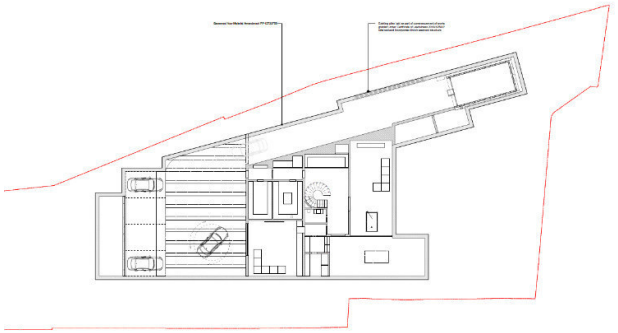

Figure 3: Plan view of the proposed New Construction scenario with red dashed boundary showing the initial Approved Extension proposal

The WLC assessment includes a comparison between the following two scenarios:

- The Approved Extension scenario: The main house is retained as it is, no improvement in internal finishes or energy performance are made. And the scope from the two planning applications Ref no: 2011/5102/P and Ref no: 2022/2773/P has been added, which mainly comprises of excavation of a basement beneath the main house and a two-storey basement link under the garden between the house and the previously approved swimming pool outbuilding and creation of a crown tiled roof / attic floor above two storey rear projection of dwelling and linked walkway to existing loft.
- The New Construction scenario: all existing building materials on site will be demolished and newly constructed.

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Energy consumption inputs

The regulated energy consumption inputs are based on SAP energy assessments carried out by Eight Versa for the development. The assessments have been carried out comparing the Existing, the Approved Extension and New Construction scenarios. The floor areas align with the energy assessment and do not include the unheated basement space when calculating the energy demand.

	kWh/m^2/y
Baseline – Existing building	106.0
Existing building + Approved Extensions	40.6
Proposed New Construction scenario	4.40

According to the assessment, because of the retained elements in the existing building + approved extensions scenario, the following applies:

- The air permeability target of the existing building + approved extensions scenario will be higher than in the New Construction. Therefore, the New Construction scenario will perform better than the refurbished scenario in terms of energy consumption.
- The thermal bridging-related heat loss will be higher in the existing building + approved extensions scenario (assuming a default Y-value of 0.2) compared to the New Construction, which benefits from improved psi-values.
- The heat loss through the building fabric will be higher in the existing building + approved extensions scenario due to limitations on achieving lower U-values for the retained elements (limitation on insulation thickness due to condensation risk).
- Lighting energy demand will be higher in the scenario of the existing building with approved extensions due to a greater Gross Internal Area (GIA) compared to the New Construction scenario.

Therefore, the New Construction scenario will perform better than the existing building + approved extensions scenario in terms of energy consumption.

The results of the WLC assessment over 60 years do not consider any future decarbonisation for construction products.

Operational energy: Not decarbonised - to 'SAP 10.2' (PART L 2021).

eight versa

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Construction Site emissions

Approved Extension scenario

Based on the input from Basement contractor following construction site impacts have been included in the Approved Extension scenario.

As the approved extension has double basement it will require the following additional work.

Equipment requirement
A Retro Fit basement would require a minimum of two small excavators working in restricted space, electrical conveyors (often three phase) to remove the spoil from beneath the house, and a large excavator in the front garden to load lorries.

Materials and labour
A Retro Fit basement would require approximately two to three times the labour input due to restricted space. Timber shuttering is greater as large reusable shutter panels are not practical and therefore small bespoke shutter panels would be required.

Concrete is delivered in small loads for each underpin increasing traffic and lorry movements.

Piles
A top-down Retro Fit basement would require temporary piles to support a new R.C. raft foundation/slab for the house (below which the underpins and excavation occur).

There would be a requirement for approximately 50 additional temporary piles that would be installed with a smaller limited access piling rig over circa three weeks and require circa 120m3 additional concrete and 10 ton of additional steel reinforcement.

It would take an additional four weeks of plant and labour to remove these temporary piles from the excavated living space once the structure is complete.

- 5,560 m total drilling
- 180 hrs of excavator work
- 350 hrs of dump truck

New Construction scenario

Based on the input from Basement contractor following construction site impacts have been included in the new construction scenario.

Equipment, material, and labour requirement
A new-build basement on an open site would only require a single large excavator.
The labour hours and materials for new construction are modelled using the standard construction approach.

The equipment requirement is provided below for the new construction scenario.

- 1,358 m total drilling
- 85 hrs of excavator work
- 124 hrs of dump truck

Piles
The piling strategy for the new construction is based on the standard construction approach.
272 no. of Secant wall piles, depth: 5 m, diameter: ø450mm, 600mm spacing

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

LCA Comparison Results

Whole life carbon results comparison

The following presents the whole life carbon results comparison for the Approved Extension scenario based on the two past approved planning applications and the proposed New Construction. Whole life carbon refers to the carbon emissions from all life cycle stages of a building from cradle to grave, including operational energy and water, over the study period of 60 years. The demolition or 'End of Life' (C) of the existing structure has been reported separately.

The carbon emissions of the Approved Extension and New Construction scenario are approximately:

Carbon emissions	Approved Extension	New Construction	% diff. in emission for new build
Demolition emission existing house (C)	0 $kgCO_2e/m^2$	29 $kgCO_2e/m^2$	
Upfront embodied carbon (A1-A5)	555 $kgCO_2e/m^2$	544 $kgCO_2e/m^2$	2% ↓
Whole life embodied carbon (A-C, exc. B6 -B7)	742 $kgCO_2e/m^2$	729 $kgCO_2e/m^2$	2% ↓
Total whole life carbon (A-C)	1,080 $kgCO_2e/m^2$	823 $kgCO_2e/m^2$	31% ↓

At the time of practical completion (year 0), the New Construction scenario exhibits a modest (2%) reduction in embodied carbon compared to the Approved Extension scenario. This difference arises primarily from the carbon emissions from demolition of the existing building offset by the increased carbon embodied in the larger, double-storey basement of the Approved Extension scenario. Moreover, it's important to note that the Approved Extension scenario presents substantially higher operational impacts than the New Construction scenario. This difference ultimately results in a significant 31% reduction in total whole life carbon emissions over the entire 60-year life cycle when opting for the new construction over the approved extension scenarios.

Whole life carbon results based on Module

The following presents the whole life carbon results comparison for the Approved Extension scenario based on the two past approved planning applications and the proposed New Construction based on different modules.

The carbon emissions of the Approved Extension and New Construction scenario are approximately:

Life Cycle Stage/Module	Approved Extension GWP [kg CO_2 eq.]	New Construction GWP [kg CO_2 eq.]
Demolition of existing building (C)	Not applicable	52,819
Construction product stage (A1-A3)	1,112,633	926,815
Transportation to site (A4)	40,025	20,881
Construction installation process (A5)	175,837	91,245
Replacement and refurbishment (B4-B5)	284,180	271,926
Operational Energy - Regulated (B6a)	667,937	45,231
Operational Energy - Unregulated (B6b)	138,336	129,744
Operational Water (B7)	2,762	2,762
End of Life (C)	162,682	81,578
TOTAL	**2,496,599**	**1,528,897**
Total biogenic carbon (A1-A3)	87,793	41,285
Future reuse, recovery, and recycling (D)	-381,836	-250,060

The D stage has been calculated as a potential figure, based upon OneClick default assumptions.

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Approved Extension scenario based on approved planning applications.
Figures 3 and 4 show the breakdown of whole life carbon by high level elemental categories for the Approved Extension and New Construction case.

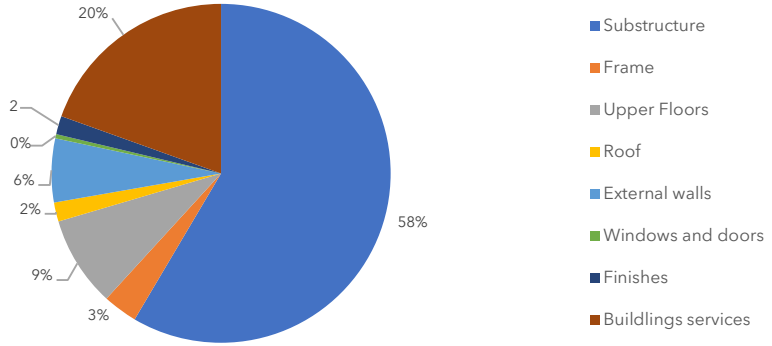

Figure 3: Whole life carbon breakdown by element for the Approved Extension [GWP, kg CO_2e]]

New Construction scenario with demolition

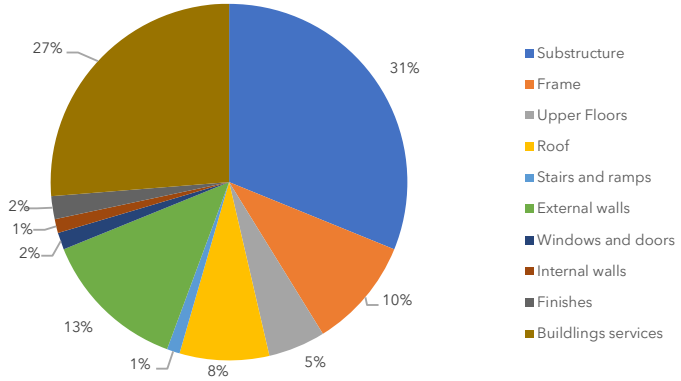

Figure 4: Whole life carbon breakdown by element for the New Construction scenario [Global warming potential [GWP, kg CO_2e]]

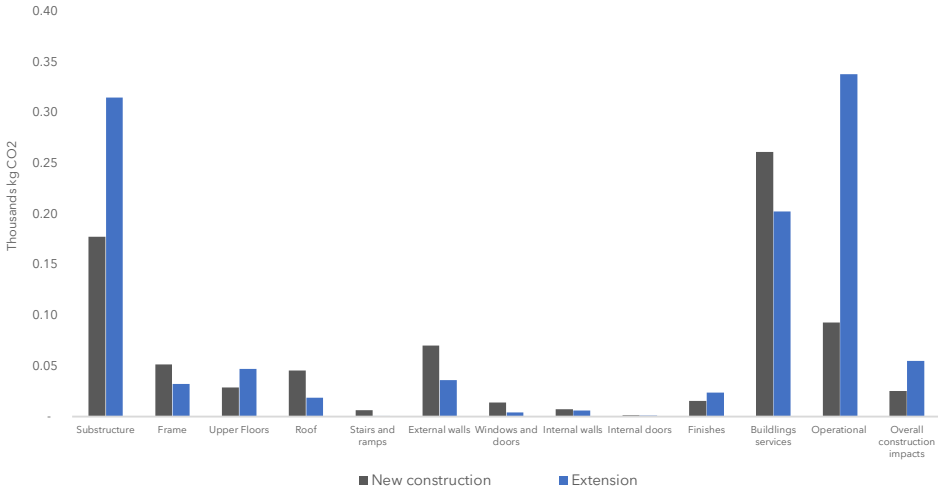

Figure 5: Whole life carbon breakdown by element for the Approved Extension and New Construction scenario [Global warming potential [GWP, kg CO_2e]]

Figure 5 provides a detailed comparative breakdown of whole life carbon by elemental categories for both the Approved Extension and New Construction cases. It is evident that in the New Construction scenario, emissions from the frame, roof, external wall, windows, doors, and building services (Car lift is also one of the biggest attributers) are higher due to the entire construction of a new house. In the Approved Extension scenario, substructure emissions are notably higher, primarily attributed to a 40% larger basement area. Additionally, operational emissions for the Approved Extension case surpass those of the New Construction case.

Whole Life Carbon Comparison Study
Radlett House

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Cumulative Carbon comparison

The New construction scenario is marginally better than the approved extension scenario at year 0. However, as the yearly operational carbon is higher for the Approved Extension scenario, the cumulative carbon impact over the study period is significantly higher than the New Construction scenario. The building life is assumed to be 60 years and all end-of-life impacts take place at Year 60.

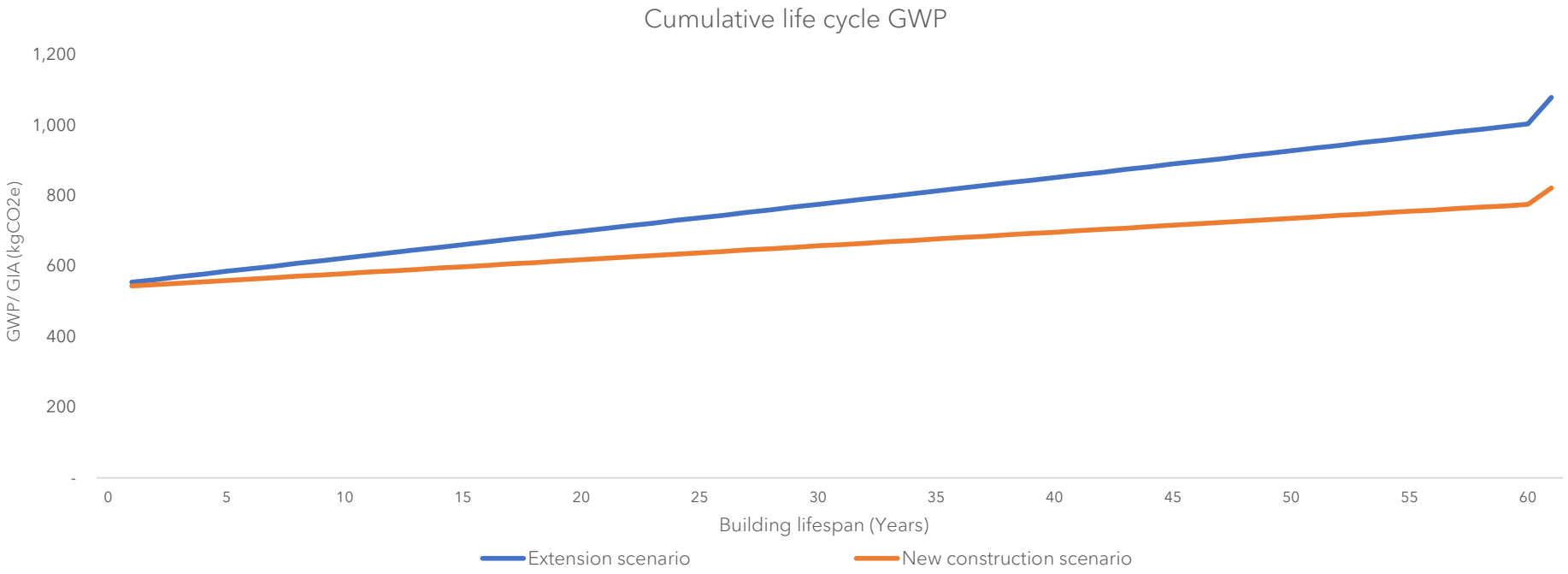

Figure 5: *Comparison of cumulative GWP (kgCO_2e) by study period year for Approved Extension and New Construction scenario*

Whole Life Carbon Comparison Study
Radlett House

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Conclusions

At the time of practical completion (year 0), the New Construction scenario exhibits a modest (2%) reduction in embodied carbon compared to the Approved Extension scenario. This difference arises primarily from the carbon emissions from demolition of the existing building offset by the increased carbon embodied in the larger, double-storey basement of the Approved Extension scenario. Moreover, it's important to note that the Approved Extension scenario presents substantially higher operational impacts than the New Construction scenario. This difference ultimately results in a significant 31% reduction in total whole life carbon emissions over the entire 60-year life cycle when opting for the new construction over the approved extension scenarios. Please see the energy assessment report by Eight Versa.

If the New Construction scenario is chosen, then total saving of **1,014,209 kgCO_2e** can been achieved over 60 years.

It needs to be noted that the impact of future decarbonisation has not been included in this assessment and the savings is therefore likely to be larger.

The results show that the New Construction scenario performs better than the Refurbishment scenario in terms of carbon emissions and will also have the following benefits:

- The poor condition of the existing building could be of concern, such as the quality of the materials and structural elements. These materials might need to be replaced or repaired within a few years. Minimal maintenance, repair and replacement will be required with new materials.
- The improved thermal performance of the dwelling will increase comfort, reduce energy consumption and costs for residents.
- The proposed New Construction features more space and a more comfortable layout which would be beneficial to the residents and fit their needs both at present and long term.

Recommendations for further work

There is a potential to further reduce the CO2 emissions of the New Construction by considering the following measures.

1) Pre demolition audit to be conducted to assess the condition of existing material and incorporate material reuse on the project.
2) All waste materials arising from the demolition of the existing building should be considered for reuse or recycling in this project or elsewhere. The external wall brickwork for example could be carefully dismantled and reused. Concrete rubble could be crushed and recycled to aggregate to further decrease emissions.
3) Circular economy principles to be incorporated in the design decision making.

It should be noted that when implementing more sustainable materials specification, careful consideration should also be given to the lifespan of a given material or element options as multiple replacements can significantly increase the embodied carbon emissions.

A subsequent analysis could be undertaken at a later stage (Stage 4) or post-construction (RIBA Stage 6). During advanced design stages, it is expected that major assumptions will be eliminated as accounting for Environmental Product Declarations where possible.

The New Construction assessment concludes that the greatest source of whole life carbon emissions over the study period is caused by construction stage (A1-A3) followed by Replacements (B4-5) and operational energy (B6). The sub structure has the highest impact in comparison with the other elemental categories.

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Appendix A – Approved Extension - Detailed reporting table

Global warming potential [GWP, kg CO2 eq.] (incl. biogenic carbon)	Construction product stage (A1-A3)	Transport to site (A4)	Construction installation process (A5)	Replacement and refurbish. (B4-B5)	Operational Energy Regulated (B6a)	Operational Energy Unregulated (B6b)	Operational Water (B7)	End of Life (C)	Modules (A1-C4)	Module (D)	Biogenic carbon
0 Demolition Works								7,851	7,851		
1 Substructure	645,328	34,283	32,149	-	-	-	40,288	41,635	753,395	(134,485)	-
2.1 Frame	36,357	446	2,117	-	-	-	37,812	37,812	39,896	(93,315)	(36,836)
2.2 Upper Floors	95,143	2,862	5,518	-	-	-	9,212	9,212	112,735	(18,330)	-
2.3 Roofs	20,246	111	1,465	4,752	-	-	18,544	18,544	29,370	(11,123)	(15,748)
2.4 Stairs and Ramps	1,234	33	-	-	-	-	47	47	1,314	(628)	-
2.5 External Walls	66,975	1,713	3,658	4,289	-	-	9,491	9,491	86,126	(11,657)	-
2.6 Windows & Doors	4,564	12	100	3,973	-	-	1,589	1,589	8,774	(637)	(1,465)
2.7 Internal Walls	7,046	60	894	-	-	-	6,019	6,019	8,444	(2,638)	(5,575)
2.8 Internal Doors	1,044	3	-	290	-	-	541	541	1,353	(26)	(524)
3 Interior finishes	19,137	141	3,117	5,913	-	-	28,779	28,779	29,441	(12,749)	(27,646)
5 Building Services	215,559	362	2,830	264,965	806,273	2,762	1,163	1,163	1,293,913	(96,249)	-
Other site impacts			123,988					-	123,988		
Total kg CO_2e	1,112,633	40,025	175,837	284,180	806,273	2,762	161,334	162,682	2,496,599	(381,836)	(87,793)

Whole Life Carbon Comparison Study
Radlett House

eight versa
+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Appendix A – New Construction - Detailed reporting table

Global warming potential [GWP, kg CO2 eq.] (incl. biogenic carbon)	Construction product stage (A1-A3)	Transport to site (A4)	Construction installation process (A5)	Replacement and refurbish (B4-B5)	Operational Energy Regulated (B6a)	Operational Energy Unregulated (B6b)	Operational Water (B7)	End of Life (C)	Modules (A1-C4)	Module (D)	Biogenic carbon
0 Demolition Works											
1 Substructure	288,478	12,080	17,204	-	-	-	21,408	288,478	339,170	-57,050	-
2.1 Frame	92,661	442	3,172	-	-	-	1,839	92,661	98,113	-39,085	-
2.2 Upper Floors	47,971	2,951	2,211	-	-	-	2,035	47,971	55,168	-9,883	-
2.3 Roofs	75,269	3,643	3,575	1,149	-	-	3,368	75,269	86,760	-13,516	244
2.4 Stairs and Ramps	10,861	324	663	-	-	-	311	10,861	12,159	-8,168	-
2.5 External Walls	122,134	777	8,916	638	-	-	1,476	122,134	133,941	-3,582	-
2.6 Windows & Doors	14,351	31	435	11,610	-	-	3,911	14,351	26,815	-2,684	3,524
2.7 Internal Walls	11,561	98	1,467	-	-	-	9,874	11,561	13,854	-4,327	9,146
2.8 Internal Doors	1,136	6	-	1,158	-	-	2,114	1,136	2,317	-	2,097
3 Interior finishes	19,313	133	3,051	5,657	-	-	27,682	19,313	29,561	-12,329	26,274
5 Building Services	243,081	397	2,281	251,714			1,321	243,081	498,795	-99,435	-
Operations					174,975	2,762			177,736	-	-
Other	-	-	48,269	-	-174,975	-2,762	6,239	-	48,269	-	-
TOTAL	926,815	20,881	91,245	271,926	174,975	2,762	81,578	926,815	1,528,897	-250,060	41,285

Whole Life Carbon Comparison Study
Radlett House

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Appendix B – Approved Extension - Schedule

Project: 10605 - Radlett House

Property Type: Single family dwelling **- Existing with extension**

Scope of Work: Whole Life Carbon

Summary - AREAS				
	Name	**TOTAL**	**unit**	**Free notes**
	Sub basement (New)	209	m2	From Drawings
	Basement (New)	946	m2	From Drawings
	Ground Floor - Pool house (New)	138	m2	From Sketchup model
	1st Floor - Pool house (New)	64	m2	From Sketchup model
	Ground Floor - Main house (Existing)	372	m2	From Brochure
	1st Floor (Existing)	307	m2	From Sketchup model
	2nd Floor (Existing)	230	m2	From Sketchup model
	Attic (Existing)	43	m2	From Brochure
	GIA (New construction)	1,357	m2	
	GIA (Existing)	951	m2	
	Total GIA	2,309	m2	

Summary - FACILITATING WORKS				
Demolition works	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**

Summary - MATERIAL INVENTORY				
1. Substructure	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	1.1 Substructure			**All information from EAP Design drawings and Carbon designer tool**
	A Secant pile wall	304	m	Perimeter from EAP dwg no. A104, depth assumed to be 10 m; C32/40 with min. 20% GGBS cement replacement, source: RICS professional statement
	B Pile Caps - Concrete	82	m3	Average dimension = 600x450 mm from EAP dwg no. A104, C32/40 with min. 20% GGBS cement replacement, source: RICS professional statement
	C Pile Caps - Reinforcement	12,310	kg	Assumed 150 kg/m3; Reinforcement with 97% recycled content, source: RICS professional statement
	D Basement Slab (Sub basement + Basement)	933	m2	Assumed 300 mm thick; C32/40 with min. 20% GGBS cement replacement, source: RICS professional statement
	E Basement wall assembly	790	m2	Includes bitumen waterproof layer, 200 mm EPS insulation,2 layers of Concrete blockwork and mortar
	F Footing foundation for hard soils	1,357	m2	Based on new GIA to be supported
	G Frost insulation	304	m	Perimeter from EAP dwg no. A104
2. Superstructure	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	2.1 Frame			**All information provided by the Structural engineer**
	Columns - Concrete	9	m3	200 x 400 mm RC columns from level -3.5 to +5.5; C32/40 with min. 20% GGBS cement replacement, source: RICS professional statement
	Columns - Reinforcement	2,808	kg	Assumed 300 kg/m3; Reinforcement with 97% recycled content, source: RICS professional statement
	Steel beams	10,818	kg	From EAP Design drawings sample area = ~195 m2 = 5409 kg (UC203 length= 38.26 (60 kg/m), UB152 length = 8.27 (30 kg/m), UC254 length = 22.52 (132 kg/m))
	Rafters - CLT	39	m3	47 x 150mm C24 at 400 mm C/C volume of timber for ~195 m2 = 20 m3
	2.2 Upper floors			**All information from EAP Design drawings**
	A Hollow core slab (Concrete + Reinforcement + 65 mm screed)	206	m2	Assumed 250 mm thick hollow core slab with reinforcement included; C40/50
	B Cast insitu slab	560	m2	Assumed 250 mm thick slab with reinforcement included; C40/50
	C PIR insulation	765	m2	100 mm thick
	2.3 Roof			**All information from EAP Design drawings**
	A CLT flat roof Slab	125	m2	A108 - Build up includes roof membrane, 22 mm plywood, 120 mm PIR insulation, Exterior plywood, C24 joists.
	B CLT pitched roof Slab	132	m2	Slate Roof coverings including PVC membrane, CLT roof structure, rock wool insulation
	C Cast insitu slab	456	m2	For basement slab
	D Dormer windows	6	m2	Product name: Velux northlight
	E Roof lights - Pool house	21	m2	Product name: Velux
	2.4 Stairs and ramps			
	A Precast concrete staircase	7	m	From level -3.5 to +3.5 (total height = 7m) for the pool house
	2.5 External walls			**All information from EAP Design drawings**
	A Brick cavity wall	411	m2	Wall build up = 102.5 mm brick, 100 mm PIR insulation, breather membrane, 100 mm concrete blockwork, 12.5 mm cement board
	2.6 Windows and external doors			
	A Double glazed windows	67	m2	From building performance modeling
	B Glazed Doors	27	m2	Glazed doors; from building performance modeling
	2.7 Internal walls and partitions			**All information from elemental cost plan dated 06/11/2023**
	Wooden stud internal walls	743	m2	2 Layers of gypsum plasterboard, 100 mm glasswool insulation and timber stud wall system quantity based on OCL carbon designer tool
	2.8 Internal doors			
	A Solid core timber + Bifold door	22	m2	From Dwg A109 by EAP design
	B Glazed door	7	m2	From Dwg A109 by EAP design
	C Bifold door fittings	1	#	From Dwg A109 by EAP design
3. Internal finishes	**Name**		**unit**	
	3.1 Wall finishes			
	General Wall Finish	2,358	m2	Emulsion Paint, quantity based on OCL carbon designer tool
	Ceramic Tiles	354	m2	Domus or similar to bathrooms and kitchens
	3.2 Floor finishes			
	Wood Flooring	1,290	m2	Parquet flooring, quantity based on OCL carbon designer tool
	Floor tiles (Kitchen + Bathrooms)	19	m2	Areas from Dwg A114
	Floor tiles (Pool)	48	m2	Areas from Dwg A114
	3.3 Ceiling finishes			
	Single layer plasterboard on suspension system	1,357	m2	Painted plasterboard ceilings throughout
4. Fittings, furnishings & equipment	**Name**		**unit**	**Specifications, assumptions, free notes**
	4.1 Fittings, furnishings & equipment			
	Kitchens			
5. Core building services	**Name**		**unit**	**Specifications, assumptions, free notes**
	5.1 Sanitary installations			
	Sink	5	nr	Porcelain sink assumed
	Water closet	3	nr	Ceramic
	Shower/ bath tubs	2	nr	
	5.2 Service equipment			
	Not applicable as per cost plan			
	5.3 Disposal installations			
	Sewage water system for single family house	1,357	m2	GIA based template
	5.4 Water installations			
	Water supply system for single family house	1,357	m2	GIA based template
	5.5 Heat source			
	Ground source heat pump	1,357	m2	Ground source heat pump building installation, 150kW, installation consists of: heat exchangers, compressor, HDPE collector pipes, work fluids, curculation pumps
	5.6 Space heating and air conditioning			
	Space heating	1,357	m2	GIA based template
	5.7 Ventilation systems			
	Mechanical Ventilation Heat Recovery (MVHR)	1,357	m2	GIA based template
	5.8 Electrical installations			
	Electric cabling for single family house	1,357	m2	GIA based template
	Lighting system for single family house	1,357	m2	GIA based template
	5.9 Fuel installations and systems			
	Not applicable			
	5.10 Lift and conveyor installations or systems			
	Elevator	1	#	8 person lift; Ground floor to roof
	5.11 Fire and lightning protection			
	Fire protection and detection system single family house	1,357	m2	GIA based template
	Lightning protection system for single family house	1,357	m2	GIA based template
	5.12 Communication, security and control systems			
	Communication system for single family house	1,357	m2	GIA based template
	5.13			
	Earthing system for single family house	1,357	m2	GIA based template
	Photovoltaic panels (monocrystalline)	310	m2	Based on marked up roof Dwg 304 Rev A dated 01/11/2023 by Rundell Associates
8. External works	**Name**		**unit**	**Specifications, assumptions, free notes**
	8.2 Roads paths and pavings			
	Not applicable			

Section	RICS category	Resource	User input	Unit	Mass of raw materials kg	TOTAL kg CO_2e	Service life
C1	0.2.Major Demolition Work	Deconstruction and demolition process (per GIA)	1835	m2		6239	
TOTAL	0.2.Major Demolition Work	Deconstruction and demolition process (per GIA)	1835	m2		6239	
	0.2.Major Demolition Work					**6239**	
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2	312.96	1447.94	As building
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2	1440	6662.3	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2	259200	29148.93	As building
A1-A3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2	66.6	168	As building
A1-A3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2	10080	4608.79	As building
A1-A3	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2	84037.8	15192.99	As building
A1-A3	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2	63028.35	18799.35	As building
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2	1798.4	8320.48	As building
A1-A3	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2	6114.56	5503.92	As building
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2	2788	12898.96	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2	501840	56435.57	As building
A1-A3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2	128.95	325.27	As building
A1-A3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2	19516	8923.14	As building
A1-A3	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2	76670	7573.2	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg	5780.25	3788.41	As building
A1-A3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg	8430	4806.97	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg	9720	6370.54	As building
A1-A3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg	14050	8011.61	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg	18819	12334.07	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg	53741.1	48514.34	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg	88818.6	9988.3	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg	767730	93806.64	As building
A1-A3	**1.Substructure**				**1994110.57**	**363629.72**	
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		0.96	As building
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		4.41	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		2021.76	As building
A4	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0.2	As building
A4	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		23.16	As building
A4	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		193.08	As building
A4	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		144.81	As building
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		5.51	As building
A4	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		18.73	As building
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		8.54	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		3914.35	As building
A4	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0.4	As building
A4	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		44.84	As building
A4	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		598.03	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		24.35	As building
A4	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		19.37	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		40.94	As building
A4	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		32.28	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		79.27	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		226.37	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		692.79	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		5988.29	As building
A4	**1.Substructure**					**14082.43**	
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2	12.52	83.86	As building
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2	57.6	385.85	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2	10368	1280.75	As building
A5	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2	6.66	30.6	As building
A5	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2	1310.4	606.44	As building
A5	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2	6302.84	1174.58	As building
A5	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2	4727.13	1436.28	As building
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2	71.94	481.89	As building
A5	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2	611.46	555.64	As building
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2	111.52	747.06	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2	20073.6	2479.68	As building
A5	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2	12.89	59.25	As building
A5	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2	2537.08	1174.14	As building
A5	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2	3066.8	336.88	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg	280.34	196.26	As building
A5	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg	1095.9	631.01	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg	471.42	330.03	As building
A5	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg	1826.5	1051.68	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg	912.72	638.98	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg	2606.44	2469.4	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg	3552.74	438.87	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg	30709.2	4092.28	As building
A5	**1.Substructure**				**90725.7**	**20681.43**	
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		0	As building
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		0	As building
B3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0	As building
B3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		0	As building
B3	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
B3	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		0	As building
B3	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		0	As building
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		0	As building
B3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0	As building
B3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		0	As building
B3	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		0	As building
B3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		0	As building
B3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		0	As building
B3	**1.Substructure**						
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		1.2	As building
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		5.51	As building
C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		758.46	As building
C2	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0.26	As building
C2	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		29.5	As building
C2	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		245.91	As building
C2	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		184.43	As building
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		6.89	As building
C2	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		17.89	As building
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		10.68	As building
C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		1468.47	As building
C2	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0.49	As building
C2	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		57.11	As building
C2	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		224.35	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		221.34	As building
C2	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		24.67	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		372.2	As building
C2	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		41.11	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		720.63	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		2057.89	As building
C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		259.9	As building

C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		2246.51	As building
C2	**1.Substructure**					**8955.39**	
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		646.38	As building
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		2974.13	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		89.65	As building
C3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		137.55	As building
C3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		3.49	As building
C3	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		29.07	As building
C3	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		21.8	As building
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		3714.35	As building
C3	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		0	As building
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		5758.24	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		173.58	As building
C3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		266.32	As building
C3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		6.75	As building
C3	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		26.52	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		12.58	As building
C3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		2.92	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		21.15	As building
C3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		4.86	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		40.94	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		116.92	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		30.72	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		265.55	As building
C3	**1.Substructure**					**14343.46**	
C4	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		15.9	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		-448.15	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		-2062.04	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		-6091.16	As building
D	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		-109.59	As building
D	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		-178.73	As building
D	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		-2061.96	As building
D	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		-1546.47	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		-2575.26	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		-3992.34	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		-11793.16	As building
D	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		-212.18	As building
D	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		-346.03	As building
D	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		-1251.14	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		-1336.15	As building
D	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		-149.47	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		-2246.85	As building
D	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		-249.12	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		-4350.14	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		-24845.26	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		-2087.22	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		-18223.77	As building
D	**1.Substructure**						
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		2180.33	As building
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		10032.21	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		33299.56	As building
TOTAL	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		336.62	As building
TOTAL	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		5271.38	As building
TOTAL	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		16835.63	As building
TOTAL	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		20586.67	As building
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		12529.12	As building
TOTAL	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		6112.08	As building
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		19423.47	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		64471.66	As building
TOTAL	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		651.72	As building
TOTAL	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		10205.97	As building
TOTAL	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		8758.98	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		4242.93	As building
TOTAL	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		5484.93	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		7134.87	As building
TOTAL	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		9141.55	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		13813.89	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		53384.91	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		11410.57	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		106399.27	As building
TOTAL	**1.Substructure**						
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		0	As building
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		0	As building
bioC	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0	As building
bioC	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		0	As building
bioC	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
bioC	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		0	As building
bioC	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		0	As building
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		0	As building
bioC	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0	As building
bioC	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		0	As building
bioC	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		0	As building
bioC	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		0	As building
bioC	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		0	As building
bioC	**1.Substructure**						
	1.Substructure				**2084836.26**	**421708.33**	
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg	910	596.42	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg	1959.75	1284.43	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg	7056	4624.54	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg	8073	5291.09	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg	14472	1618.48	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg	33600	3757.67	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg	35238	23095.17	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg	56448	6312.88	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg	59616	6667.18	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg	281904	31526.85	As building
A1-A3	**2.1. Frame**				**499276.75**	**84774.71**	
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg		3.83	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg		8.25	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg		29.72	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg		34	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg		112.88	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg		262.08	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg		148.43	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg		440.29	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg		465	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg		2198.85	As building
A4	**2.1. Frame**					**3703.36**	

A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg		44.14	30.9	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg		95.05	66.54	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg		342.22	239.58	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg		391.54	274.11	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg		578.88	71.15	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg		1344	165.19	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg		1709.04	1196.48	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg		2257.92	277.52	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg		2384.64	293.09	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg		11276.16	1385.92	As building
A5	**2.1. Frame**					**20423.58**	**4000.47**	
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			0	As building
B3	**2.1. Frame**							
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			34.85	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			75.04	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			270.19	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			309.14	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			42.35	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			98.32	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			1349.35	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			165.18	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			174.45	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			824.9	As building
C2	**2.1. Frame**						**3343.76**	
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			1.98	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			4.26	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			15.35	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			17.56	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			5.01	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			11.62	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			76.66	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			19.52	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			20.62	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			97.51	As building
C3	**2.1. Frame**						**270.1**	
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			-210.35	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			-453.01	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			-1631.04	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			-1866.13	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			-340.09	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			-789.59	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			-8145.51	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			-1326.52	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			-1400.97	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			-6624.7	As building
D	**2.1. Frame**							
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			667.98	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			1438.53	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			5179.38	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			5925.9	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			1849.87	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			4294.88	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			25866.09	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			7215.4	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			7620.34	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			36034.03	As building
TOTAL	**2.1. Frame**							
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			0	As building
bioC	**2.1. Frame**							
	2.1. Frame					**519700.33**	**96092.4**	
A1-A3	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3		367200	38005.96	As building
A1-A3	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg		20593	9965.29	As building
A1-A3	**2.2.Upper floor**					**387793**	**47971.25**	
A4	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			2864.16	As building
A4	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			86.74	As building
A4	**2.2.Upper floor**						**2950.9**	
A5	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3		14688	1682.86	As building
A5	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg		998.76	527.94	As building
A5	**2.2.Upper floor**					**15686.76**	**2210.81**	
B3	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			0	As building
B3	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			0	As building
B3	**2.2.Upper floor**							
C2	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			1074.49	As building
C2	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			788.56	As building
C2	**2.2.Upper floor**						**1863.05**	
C3	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			127.01	As building
C3	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			44.8	As building
C3	**2.2.Upper floor**						**171.81**	
D	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			-8454.82	As building
D	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			-1428.06	As building
D	**2.2.Upper floor**							
TOTAL	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			43754.48	As building
TOTAL	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			11413.34	As building
TOTAL	**2.2.Upper floor**							
bioC	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			0	As building
bioC	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			0	As building
bioC	**2.2.Upper floor**							
	2.2.Upper floor					**403479.76**	**55167.82**	
A1-A3	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fen	13	m2		463.58	1128.25	40
A1-A3	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		441600	45706.51	As building
A1-A3	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		28917	6566.53	As building
A1-A3	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		286.42	670.41	60
A1-A3	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		6885	8967.52	As building
A1-A3	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		1377	1122.56	60
A1-A3	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		22952	11106.85	As building
A1-A3	**2.3.Roofs**					**502481**	**75268.65**	
A4	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fen	13	m2			2.31	40
A4	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3			3444.48	As building
A4	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2			66.44	As building

A4	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		0.88	60	
A4	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		15.82	As building	
A4	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		16.6	60	
A4	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		96.68	As building	
A4	**2.3.Roofs**					**3643.2**		
A5	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2	0	0	40	
A5	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3	17664	2023.84	As building	
A5	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2	0	0	As building	
A5	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2	28.64	126.39	60	
A5	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2	550.8	721.71	As building	
A5	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2	137.7	114.68	60	
A5	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg	1113.17	588.42	As building	
A5	**2.3.Roofs**				**19494.31**	**3575.04**		
B3	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		0	40	
B3	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		0	As building	
B3	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		0	As building	
B3	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		0	60	
B3	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		0	As building	
B3	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		0	60	
B3	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		0	As building	
B3	**2.3.Roofs**							
B4	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		1148.65	40	
B5	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2	0	0	40	
C2	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		17.75	40	
C2	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		1292.2	As building	
C2	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		84.62	As building	
C2	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		1.1	60	
C2	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		20.15	As building	
C2	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		4.03	60	
C2	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		878.89	As building	
C2	**2.3.Roofs**					**2298.73**		
C3	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		243.72	40	
C3	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		152.74	As building	
C3	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		10	As building	
C3	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		591.55	60	
C3	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		0	As building	
C3	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		0	60	
C3	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		49.93	As building	
C3	**2.3.Roofs**					**1047.95**		
C4	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		0.24	40	
C4	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		17.9	As building	
C4	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		3.58	60	
C4	**2.3.Roofs**					**21.72**		
D	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		-9.71	40	
D	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		-10167.88	As building	
D	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		-1275.03	As building	
D	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		-471.29	60	
D	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		-1591.65	As building	
D	**2.3.Roofs**							
TOTAL	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		2297.3	40	
TOTAL	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		52619.77	As building	
TOTAL	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		6727.59	As building	
TOTAL	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		1390.34	60	
TOTAL	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		9743.1	As building	
TOTAL	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		1261.45	60	
TOTAL	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		12720.78	As building	
TOTAL	**2.3.Roofs**							
bioC	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		-243.62	40	
bioC	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		0	As building	
bioC	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		0	As building	
bioC	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		0	60	
bioC	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		0	As building	
bioC	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		0	60	
bioC	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		0	As building	
bioC	**2.3.Roofs**					**-243.62**		
	2.3.Roofs				**521975.31**	**86760.32**		
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3	10054.8	1130.74	As building	
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3	20109.6	2261.47	As building	
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3	28980	3259.01	As building	
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3	57960	6518.03	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg	418.95	274.58	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg	837.9	549.16	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg	1207.5	791.4	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg	2415	1582.8	As building	
A1-A3	**2.4.Stairs and ramps**				**121983.75**	**16367.2**		
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		78.43	As building	
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		156.85	As building	
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		226.04	As building	
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		452.09	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		1.76	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		3.53	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		5.09	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		10.17	As building	
A4	**2.4.Stairs and ramps**					**933.97**		
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3	402.19	49.68	As building	
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3	804.38	99.37	As building	
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3	1159.2	143.2	As building	
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3	2318.4	286.39	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg	20.32	14.23	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg	40.64	28.45	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg	58.56	41	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg	117.13	82	As building	
A5	**2.4.Stairs and ramps**				**4920.82**	**744.31**		
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		0	As building	
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		0	As building	
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		0	As building	
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		0	As building	
B3	**2.4.Stairs and ramps**							
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		29.42	As building	
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		58.84	As building	
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		84.8	As building	
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		169.6	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		16.04	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		32.09	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		46.24	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		92.48	As building	
C2	**2.4.Stairs and ramps**					**529.51**		
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		3.48	As building	
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		6.96	As building	
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		10.02	As building	
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		20.05	As building	
C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		0.91	As building	
C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		1.82	As building	

C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		2.63	As building	
C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		5.25	As building	
C3	**2.4.Stairs and ramps**					**51.12**		
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		-236.29	As building	
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		-472.57	As building	
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		-681.03	As building	
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		-1362.05	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		-96.84	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		-193.69	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		-279.12	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		-558.24	As building	
D	**2.4.Stairs and ramps**							
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		1291.75	As building	
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		2583.49	As building	
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		3723.08	As building	
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		7446.15	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		307.53	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		615.05	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		886.35	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		1772.71	As building	
TOTAL	**2.4.Stairs and ramps**							
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		0	As building	
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		0	As building	
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		0	As building	
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		0	As building	
bioC	**2.4.Stairs and ramps**							
	2.4.Stairs and ramps				**126904.57**	**18626.1**		
A1-A3	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg	0	0		10
A1-A3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2	217.89	50.82	As building	
A1-A3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2	651.66	151.98	As building	
A1-A3	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2	171662.21	36564.05	As building	
A1-A3	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2	82704.05	25384.35	As building	
A1-A3	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2	20175	26277.39	As building	
A1-A3	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2	14425.6	4132.36	As building	
A1-A3	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2	4438.5	602.82		30
A1-A3	**2.5.External walls**				**294274.91**	**93163.77**		
A4	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0.5	As building	
A4	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		1.5	As building	
A4	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		394.4	As building	
A4	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		190.02	As building	
A4	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		46.35	As building	
A4	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		33.14	As building	
A4	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		10.2		30
A4	**2.5.External walls**					**676.11**		
A5	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg	0	0		10
A5	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2	28.33	6.76	As building	
A5	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2	84.72	20.23	As building	
A5	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2	8583.11	1876.01	As building	
A5	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2	6202.8	1938.37	As building	
A5	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2	1614	2114.82	As building	
A5	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2	1803.2	561.54	As building	
A5	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2	577.01	82.88		30
A5	**2.5.External walls**				**18893.16**	**6600.61**		
B3	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
B3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0	As building	
B3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		0	As building	
B3	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		0	As building	
B3	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		0	As building	
B3	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		0	As building	
B3	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		0	As building	
B3	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		0		30
B3	**2.5.External walls**							
B4	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
B4	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		637.55		30
B4	**2.5.External walls**					**637.55**		
B5	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg	0	0		10
B5	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2	0	0		30
B5	**2.5.External walls**							
C2	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0.64	As building	
C2	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		1.91	As building	
C2	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		502.31	As building	
C2	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		242.01	As building	
C2	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		59.04	As building	
C2	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		316.59	As building	
C2	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		12.99		30
C2	**2.5.External walls**					**1135.48**		
C3	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
C3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0.075	As building	
C3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		0.23	As building	
C3	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		59.38	As building	
C3	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		28.61	As building	
C3	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		0	As building	
C3	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		10.22	As building	
C3	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		0		30
C3	**2.5.External walls**					**98.5**		
C4	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		52.46	As building	
C4	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		11.54		30
C4	**2.5.External walls**					**64**		
D	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		-3.86	As building	
D	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		-11.55	As building	
D	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		-707.6	As building	
D	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		-2029.23	As building	
D	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		-35.7	As building	
D	**2.5.External walls**							
TOTAL	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
TOTAL	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		58.79	As building	
TOTAL	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		175.84	As building	
TOTAL	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		39396.15	As building	
TOTAL	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		27783.35	As building	
TOTAL	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		28550.05	As building	
TOTAL	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		5053.85	As building	
TOTAL	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		1357.98		30
TOTAL	**2.5.External walls**							
bioC	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
bioC	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0	As building	
bioC	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		0	As building	
bioC	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		0	As building	
bioC	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		0	As building	
bioC	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		0	As building	
bioC	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		0	As building	
bioC	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		0		30
bioC	**2.5.External walls**							
	2.5.External walls				**313168.07**	**102376.01**		

A1-A3	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2	404.8	566.6	40
A1-A3	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg	130.95	2306.06	As building
A1-A3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	4365	5334.67	35
A1-A3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	4365	5334.67	35
A1-A3	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg	1746	809.01	As building
A1-A3	**2.6.Windows and external doors**				**11011.75**	**14351.02**	
A4	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		2.02	40
A4	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0.55	As building
A4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		10.03	35
A4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		10.03	35
A4	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		8.69	As building
A4	**2.6.Windows and external doors**					**31.32**	
A5	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2	0	0	40
A5	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg	9.82	173.39	As building
A5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	43.65	55.13	35
A5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	43.65	55.13	35
A5	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg	312.53	151.58	As building
A5	**2.6.Windows and external doors**				**409.66**	**435.24**	
B3	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		0	40
B3	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0	As building
B3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
B3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
B3	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		0	As building
B3	**2.6.Windows and external doors**						
B4	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		584.41	40
B4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		5512.99	35
B4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		5512.99	35
B4	**2.6.Windows and external doors**					**11610.39**	
B5	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2	0	0	40
B5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	0	0	35
B5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	0	0	35
B5	**2.6.Windows and external doors**						
C2	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		15.5	40
C2	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		5.01	As building
C2	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		167.15	35
C2	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		167.15	35
C2	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		6.69	As building
C2	**2.6.Windows and external doors**					**361.5**	
C3	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		293.78	40
C3	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0.27	As building
C3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		1.14	35
C3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		1.14	35
C3	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		3252.55	As building
C3	**2.6.Windows and external doors**					**3548.89**	
C4	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		0.21	40
D	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		-8.48	40
D	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		-1168.16	As building
D	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		-114.83	35
D	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		-114.83	35
D	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		-1277.97	As building
D	**2.6.Windows and external doors**						
TOTAL	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		1168.81	40
TOTAL	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		2485.3	As building
TOTAL	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		11081.11	35
TOTAL	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		11081.11	35
TOTAL	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		998.42	As building
TOTAL	**2.6.Windows and external doors**						
bioC	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		-293.7	40
bioC	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0	As building
bioC	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
bioC	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
bioC	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		-3230.1	As building
bioC	**2.6.Windows and external doors**					**-3523.8**	
	2.6.Windows and external doors				**11421.41**	**26814.75**	
A1-A3	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2	5820.02	835.73	As building
A1-A3	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2	2694	2934.77	As building
A1-A3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	13597.17	3895.05	As building
A1-A3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	13597.17	3895.05	As building
A1-A3	**2.7.Internal walls and partitions**				**35708.37**	**11560.61**	
A4	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		28.97	As building
A4	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		6.19	As building
A4	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		31.24	As building
A4	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		31.24	As building
A4	**2.7.Internal walls and partitions**					**97.64**	
A5	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2	1041.78	172.17	As building
A5	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2	215.52	236.47	As building
A5	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	1699.65	529.29	As building
A5	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	1699.65	529.29	As building
A5	**2.7.Internal walls and partitions**				**4656.6**	**1467.22**	
B3	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		0	As building
B3	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		0	As building
B3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
B3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
B3	**2.7.Internal walls and partitions**						
C2	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		22.29	As building
C2	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		7.88	As building
C2	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		298.41	As building
C2	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		298.41	As building
C2	**2.7.Internal walls and partitions**					**626.98**	
C3	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		9220.58	As building
C3	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		0	As building
C3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		9.63	As building
C3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		9.63	As building
C3	**2.7.Internal walls and partitions**					**9239.84**	
C4	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		7	As building
D	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		-4259.92	As building
D	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		-33.65	As building
D	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		-33.65	As building
D	**2.7.Internal walls and partitions**						
TOTAL	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		1133.98	As building
TOTAL	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		3192.32	As building
TOTAL	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		4763.62	As building
TOTAL	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		4763.62	As building
TOTAL	**2.7.Internal walls and partitions**						
bioC	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		-9145.75	As building
bioC	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		0	As building
bioC	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
bioC	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
bioC	**2.7.Internal walls and partitions**					**-9145.75**	
	2.7.Internal walls and partitions				**40364.96**	**13853.55**	
A1-A3	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2	1144	1135.82	40
A1-A3	**2.8.Internal doors**				**1144**	**1135.82**	
A4	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2		5.69	40
A5	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2	0	0	40
A5	**2.8.Internal doors**						
B3	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2		0	40
B3	**2.8.Internal doors**						

B4	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			1158.25	40
B5	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2		0	0	40
C2	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			4.38	40
C3	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			2109.1	40
C3	**2.8.Internal doors**						**2109.1**	
C4	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			0.59	40
D	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			0	40
TOTAL	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			2316.51	40
TOTAL	**2.8.Internal doors**							
bioC	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			-2097.33	40
bioC	**2.8.Internal doors**						**-2097.33**	
	2.8.Internal doors					**1144**	**2316.51**	
A1-A3	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2		2784	13.55	30
A1-A3	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2		149	241.61	15
A1-A3	**3.1.Wall finishes**					**2933**	**255.16**	
A4	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			6.4	30
A4	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			1.8	15
A4	**3.1.Wall finishes**						**8.19**	
A5	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2		278.4	2.91	30
A5	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2		14.9	24.42	15
A5	**3.1.Wall finishes**					**293.3**	**27.33**	
B3	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			0	30
B3	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0	15
B3	**3.1.Wall finishes**							
B4	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			29.06	30
B4	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			732.68	15
B4	**3.1.Wall finishes**						**761.74**	
B5	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2		0	0	30
B5	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2		0	0	15
B5	**3.1.Wall finishes**							
C2	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			8.15	30
C2	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0.44	15
C2	**3.1.Wall finishes**						**8.58**	
C3	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			0.96	30
C3	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0	15
C3	**3.1.Wall finishes**						**0.96**	
C4	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0.39	15
D	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			-22.95	30
TOTAL	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			61.02	30
TOTAL	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			1001.34	15
TOTAL	**3.1.Wall finishes**							
bioC	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			0	30
bioC	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0	15
bioC	**3.1.Wall finishes**							
	3.1.Wall finishes					**3226.3**	**1062.36**	
A1-A3	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2		152.46	691.23	As building
A1-A3	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		141	114.95	20
A1-A3	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2		131.6	60.17	As building
A1-A3	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		2256	1483.7	30
A1-A3	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		22.75	65.47	10
A1-A3	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		226.81	572.14	30
A1-A3	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		15460.82	11129.89	As building
A1-A3	**3.2.Floor finishes**					**18391.44**	**14117.54**	
A4	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			0.47	As building
A4	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			1.7	20
A4	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0.3	As building
A4	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			5.18	30
A4	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0.27	10
A4	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			0.69	30
A4	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			76.96	As building
A4	**3.2.Floor finishes**						**85.59**	
A5	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2		6.1	40.29	As building
A5	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		14.1	11.74	20
A5	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2		17.11	7.92	As building
A5	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		225.6	149.63	30
A5	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		2.28	6.59	10
A5	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		22.68	104.21	30
A5	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		2767.49	2052.21	As building
A5	**3.2.Floor finishes**					**3055.35**	**2372.58**	
B3	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			0	As building
B3	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0	20
B3	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0	As building
B3	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			0	30
B3	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0	10
B3	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			0	30
B3	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			0	As building
B3	**3.2.Floor finishes**							
B4	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			234.85	20
B4	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			1496.27	30
B4	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			329.33	10
B4	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			1042.15	30
B4	**3.2.Floor finishes**						**3102.6**	
B5	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		0	0	20
B5	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		0	0	30
B5	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		0	0	10
B5	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		0	0	30
B5	**3.2.Floor finishes**							
C2	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			0.58	As building
C2	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0.41	20
C2	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0.39	As building
C2	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			6.6	30
C2	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0.067	10
C2	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			0.87	30
C2	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			59.2	As building
C2	**3.2.Floor finishes**						**68.12**	
C3	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			314.89	As building
C3	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0	20
C3	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0.046	As building
C3	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			0.78	30
C3	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0	10
C3	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			468.45	30
C3	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			26472.93	As building
C3	**3.2.Floor finishes**						**27257.09**	
C4	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0.37	20
C4	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0.059	10
C4	**3.2.Floor finishes**						**0.43**	
D	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			-218.32	As building
D	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			-2.33	As building
D	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			-18.6	30
D	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			-712.49	30
D	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			-11316.42	As building
D	**3.2.Floor finishes**							
TOTAL	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			1047.45	As building
TOTAL	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			364.02	20
TOTAL	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			68.82	As building
TOTAL	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			3142.16	30
TOTAL	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			401.78	10

TOTAL	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		2188.51	30	
TOTAL	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		13517.05	As building	
TOTAL	**3.2.Floor finishes**							
bioC	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2		0	As building	
bioC	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		0	20	
bioC	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2		0	As building	
bioC	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		0	30	
bioC	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		0	10	
bioC	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		0	30	
bioC	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		-26274.15	As building	
bioC	**3.2.Floor finishes**					**-26274.15**		
	3.2.Floor finishes				**21446.79**	**20729.79**		
A1-A3	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg	364.64	591.28	15	
A1-A3	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2	15181.09	4348.78	As building	
A1-A3	**3.3.Ceiling finishes**				**15545.73**	**4940.07**		
A4	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		4.4	15	
A4	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		34.88	As building	
A4	**3.3.Ceiling finishes**					**39.28**		
A5	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg	36.46	59.77	15	
A5	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2	1897.64	590.95	As building	
A5	**3.3.Ceiling finishes**				**1934.1**	**650.72**		
B3	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0	15	
B3	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		0	As building	
B3	**3.3.Ceiling finishes**							
B4	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		1793.09	15	
B5	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg	0	0	15	
C2	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		1.07	15	
C2	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		333.17	As building	
C2	**3.3.Ceiling finishes**					**334.24**		
C3	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0	15	
C3	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		10.75	As building	
C3	**3.3.Ceiling finishes**					**10.75**		
C4	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0.95	15	
D	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		-37.57	As building	
TOTAL	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		2450.56	15	
TOTAL	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		5318.53	As building	
TOTAL	**3.3.Ceiling finishes**							
bioC	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0	15	
bioC	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		0	As building	
bioC	**3.3.Ceiling finishes**							
	3.3.Ceiling finishes				**17479.83**	**7769.09**		
A1-A3	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit	352	2109.43	As building	
A1-A3	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit	233.8	429.72	As building	
A1-A3	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit	487.2	895.47	As building	
A1-A3	**5.1.Sanitary installations**				**1073**	**3434.63**		
A4	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		3.27	As building	
A4	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		2.17	As building	
A4	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		4.52	As building	
A4	**5.1.Sanitary installations**					**9.95**		
A5	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit	0	0	As building	
A5	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit	0	0	As building	
A5	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit	0	0	As building	
A5	**5.1.Sanitary installations**							
B3	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0	As building	
B3	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0	As building	
B3	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		0	As building	
B3	**5.1.Sanitary installations**							
C2	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		1.03	As building	
C2	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0.68	As building	
C2	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		1.43	As building	
C2	**5.1.Sanitary installations**					**3.14**		
C3	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0	As building	
C3	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0	As building	
C3	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		0	As building	
C3	**5.1.Sanitary installations**							
C4	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0.92	As building	
C4	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0.61	As building	
C4	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		1.27	As building	
C4	**5.1.Sanitary installations**					**2.79**		
TOTAL	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		2114.64	As building	
TOTAL	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		433.19	As building	
TOTAL	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		902.69	As building	
TOTAL	**5.1.Sanitary installations**							
bioC	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0	As building	
bioC	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0	As building	
bioC	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		0	As building	
bioC	**5.1.Sanitary installations**							
	5.1.Sanitary installations				**1073**	**3450.51**		
A1-A3	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit	7826	46221.87	40	
A4	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		72.59	40	
A5	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit	0	0	40	
B3	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		0	40	
B4	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		46623.09	40	
B5	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit	0	0	40	
C2	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		299.68	40	
C3	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		26.92	40	
C4	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		2.03	40	
D	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		-31056.39	40	
TOTAL	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		93246.18	40	
bioC	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		0	40	
	5.10.Lift and conveyor installations/systems				**7826**	**93246.18**		
A1-A3	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit	0.074	60.72	20	
A1-A3	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218 4	1.84	unit	2.73	13.57	20	
A1-A3	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit	13.2	60.34	20	
A1-A3	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit	2.72	191.36	20	
A1-A3	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit	10.87	109.34	20	
A1-A3	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit	1.13	6.76	20	
A1-A3	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit	5.33	68.4	20	
A1-A3	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit	0.93	6.55	20	
A1-A3	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit	15.91	843.87	20	
A1-A3	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m	4.17	32.06	20	
A1-A3	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit	53.22	486.39	20	
A1-A3	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg	229.38	848.8	20	
A1-A3	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m	2361.65	9952.95	30	
A1-A3	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRC	1449.65	m	334.87	1446.59	20	
A1-A3	**5.11.Fire and lightning protection**				**3036.18**	**14127.7**		
A4	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		0.00068	20	
A4	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218 4	1.84	unit		0.025	20	
A4	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		0.12	20	
A4	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		0.025	20	
A4	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		0.1	20	
A4	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		0.01	20	
A4	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		0.049	20	
A4	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		0.0086	20	
A4	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		0.061	20	
A4	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		0.039	20	
A4	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		0.49	20	

A4	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			2.34	20
A4	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			9.95	30
A4	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			3.11	20
A4	**5.11.Fire and lightning protection**						**16.33**	
A5	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit	0.027	0.14	0.14	20
A5	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit	0.13	0.61	0.61	20
A5	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit	0.027	1.91	1.91	20
A5	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit	0.011	0.068	0.068	20
A5	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit	0.0093	0.066	0.066	20
A5	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m	0.042	0.32	0.32	20
A5	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit	0.53	4.89	4.89	20
A5	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg	13.76	51.65	51.65	20
A5	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m	177.12	754.39	754.39	30
A5	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m	3.35	14.52	14.52	20
A5	**5.11.Fire and lightning protection**				**195.02**	**828.56**		
B3	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		0	0	20
B3	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		0	0	20
B3	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		0	0	20
B3	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		0	0	20
B3	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		0	0	20
B3	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		0	0	20
B3	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		0	0	20
B3	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		0	0	20
B3	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		0	0	30
B3	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m		0	0	20
B3	**5.11.Fire and lightning protection**							
B4	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			121.45	20
B4	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			27.42	20
B4	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			122.04	20
B4	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			383	20
B4	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			219.8	20
B4	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			13.63	20
B4	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			137.34	20
B4	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			13.19	20
B4	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			1689.2	20
B4	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			64.24	20
B4	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			978.23	20
B4	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			1721.54	20
B4	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			10058.47	30
B4	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			2903.1	20
B4	**5.11.Fire and lightning protection**						**18452.66**	
B5	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m	0	0	0	20
B5	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit	0	0	0	20
B5	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg	0	0	0	20
B5	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m	0	0	0	30
B5	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m	0	0	0	20
B5	**5.11.Fire and lightning protection**							
C2	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			0.0028	20
C2	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			0.1	20
C2	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			0.51	20
C2	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			0.1	20
C2	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			0.42	20
C2	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			0.043	20
C2	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			0.2	20
C2	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			0.035	20
C2	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			0.61	20
C2	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			0.012	20
C2	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			2.04	20
C2	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			8.78	20
C2	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			90.43	30
C2	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			0.98	20
C2	**5.11.Fire and lightning protection**						**104.27**	
C3	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			0.00025	20
C3	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			0.0094	20
C3	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			0.045	20
C3	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			0.0094	20
C3	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			0.037	20
C3	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			0.0039	20
C3	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			0.018	20
C3	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			0.0032	20
C3	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			0.055	20
C3	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			0	20
C3	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			0.18	20
C3	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			0.79	20
C3	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			5.14	30
C3	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			0	20
C3	**5.11.Fire and lightning protection**						**6.29**	
C4	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			0.000019	20
C4	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			0.00071	20
C4	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			0.0034	20
C4	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			0.00071	20
C4	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			0.0028	20
C4	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			0.00029	20
C4	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			0.0014	20
C4	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			0.00024	20
C4	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			0.0041	20
C4	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			0.011	20
C4	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			0.014	20
C4	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			0.06	20
C4	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			0.87	20
C4	**5.11.Fire and lightning protection**						**0.97**	
D	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			-0.44	20
D	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			-16.32	20
D	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			-78.81	20
D	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			-16.27	20
D	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			-64.73	20
D	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			-6.74	20
D	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			-31.75	20
D	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			-5.53	20
D	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			-94.72	20

D	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		-317.82	20
D	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		-1392.7	20
D	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		-10803.67	30
D	**5.11.Fire and lightning protection**						
TOTAL	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		182.17	20
TOTAL	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit		41.26	20
TOTAL	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		183.67	20
TOTAL	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		576.41	20
TOTAL	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		329.7	20
TOTAL	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		20.52	20
TOTAL	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		206.01	20
TOTAL	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		19.86	20
TOTAL	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		2533.8	20
TOTAL	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		96.69	20
TOTAL	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		1472.23	20
TOTAL	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		2633.96	20
TOTAL	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		20871.33	30
TOTAL	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m		4369.16	20
TOTAL	**5.11.Fire and lightning protection**						
bioC	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		0	20
bioC	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		0	20
bioC	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		0	20
bioC	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		0	20
bioC	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		0	20
bioC	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		0	20
bioC	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		0	20
bioC	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		0	20
bioC	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		0	30
bioC	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m		0	20
bioC	**5.11.Fire and lightning protection**						
	5.11.Fire and lightning protection				**3231.19**	**33536.78**	
A1-A3	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m	39.62	202.84	30
A1-A3	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m	115.94	485.23	30
A1-A3	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m	183.39	580.82	30
A1-A3	**5.12.Communication, Security and Control Systems**				**338.94**	**1268.89**	
A4	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0.37	30
A4	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		1.08	30
A4	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		1.7	30
A4	**5.12.Communication, Security and Control Systems**					**3.14**	
A5	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m	0.4	2.03	30
A5	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m	1.16	4.87	30
A5	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m	1.83	5.84	30
A5	**5.12.Communication, Security and Control Systems**				**3.39**	**12.74**	
B3	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0	30
B3	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0	30
B3	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0	30
B3	**5.12.Communication, Security and Control Systems**						
B4	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		203.43	30
B4	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		486.94	30
B4	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		583.54	30
B4	**5.12.Communication, Security and Control Systems**					**1273.91**	
B5	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m	0	0	30
B5	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m	0	0	30
B5	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m	0	0	30
B5	**5.12.Communication, Security and Control Systems**						
C2	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0.12	30
C2	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0.34	30
C2	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0.54	30
C2	**5.12.Communication, Security and Control Systems**					**0.99**	
C3	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0	30
C3	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0	30
C3	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0	30
C3	**5.12.Communication, Security and Control Systems**						
C4	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0.1	30
C4	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0.3	30
C4	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0.48	30
C4	**5.12.Communication, Security and Control Systems**					**0.88**	
TOTAL	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		408.89	30
TOTAL	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		978.75	30
TOTAL	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		1172.91	30
TOTAL	**5.12.Communication, Security and Control Systems**						
bioC	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0	30
bioC	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0	30
bioC	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0	30
bioC	**5.12.Communication, Security and Control Systems**						
	5.12.Communication, Security and Control Systems				**342.33**	**2560.56**	
A1-A3	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit	27.47	52.04	30
A1-A3	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg	240.05	629.79	30
A1-A3	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2	4495	79980	20
A1-A3	**5.13.Special installations**				**4762.52**	**80661.83**	
A4	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0.25	30
A4	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		1.01	30
A4	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		41.69	20
A4	**5.13.Special installations**					**42.96**	
A5	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit	0	0	30
A5	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg	18	48.04	30
A5	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2	0	0	20
A5	**5.13.Special installations**				**18**	**48.04**	
B3	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0	30
B3	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		0	30
B3	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		0	20
B3	**5.13.Special installations**						
B4	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		53.45	30
B4	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		640.51	30
B4	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		160420.89	20
B4	**5.13.Special installations**					**161114.86**	
B5	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit	0	0	30
B5	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg	0	0	30
B5	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2	0	0	20
B5	**5.13.Special installations**						
C2	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		1.05	30
C2	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		9.19	30
C2	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		172.13	20
C2	**5.13.Special installations**					**182.37**	
C3	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0.094	30
C3	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		0.52	30
C3	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		15.46	20
C3	**5.13.Special installations**					**16.08**	
C4	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0.0071	30
C4	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		1.17	20
C4	**5.13.Special installations**					**1.18**	
D	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		-109.01	30
D	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		-1098.13	30

D	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		-26756.67	20	
D	**5.13.Special installations**							
TOTAL	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		106.9	30	
TOTAL	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		1329.06	30	
TOTAL	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		240631.34	20	
TOTAL	**5.13.Special installations**							
bioC	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0	30	
bioC	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		0	30	
bioC	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		0	20	
bioC	**5.13.Special installations**							
	5.13.Special installations				**4780.52**	**242067.31**		
A1-A3	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit	65.84	664.35	As building	
A1-A3	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m	855.48	1633.33	As building	
A1-A3	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m	1159.37	2651.52	As building	
A1-A3	**5.3.Disposal installations**				**2080.68**	**4949.21**		
A4	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0.61	As building	
A4	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		8.73	As building	
A4	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		11.83	As building	
A4	**5.3.Disposal installations**					**21.17**		
A5	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit	0	0	As building	
A5	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m	51.33	100.68	As building	
A5	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m	69.56	162.72	As building	
A5	**5.3.Disposal installations**				**120.89**	**263.4**		
B3	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0	As building	
B3	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		0	As building	
B3	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		0	As building	
B3	**5.3.Disposal installations**							
C2	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0.19	As building	
C2	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		32.76	As building	
C2	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		44.4	As building	
C2	**5.3.Disposal installations**					**77.35**		
C3	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0	As building	
C3	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		2.94	As building	
C3	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		3.99	As building	
C3	**5.3.Disposal installations**					**6.93**		
C4	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0.17	As building	
C4	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		0.22	As building	
C4	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		0.3	As building	
C4	**5.3.Disposal installations**					**0.7**		
D	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		-1799.27	As building	
D	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		-2438.42	As building	
D	**5.3.Disposal installations**							
TOTAL	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		665.33	As building	
TOTAL	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		1778.66	As building	
TOTAL	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		2874.76	As building	
TOTAL	**5.3.Disposal installations**							
bioC	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0	As building	
bioC	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		0	As building	
bioC	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		0	As building	
bioC	**5.3.Disposal installations**							
	5.3.Disposal installations				**2201.57**	**5318.75**		
A1-A3	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit	25.19	197.88	As building	
A1-A3	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit	6.43	58.34	As building	
A1-A3	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit	9.63	92.37	As building	
A1-A3	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg	50.46	150.88	As building	
A1-A3	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m	756.94	3543.85	As building	
A1-A3	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m	1092.46	4556.12	As building	
A1-A3	**5.4.Water installations**				**1941.11**	**8599.43**		
A4	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0.23	As building	
A4	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0.06	As building	
A4	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.098	As building	
A4	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0.51	As building	
A4	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		7.02	As building	
A4	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		11.15	As building	
A4	**5.4.Water installations**					**19.07**		
A5	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit	0	0	As building	
A5	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit	0	0	As building	
A5	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit	0.58	5.57	As building	
A5	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg	3.03	9.21	As building	
A5	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m	0	0	As building	
A5	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m	65.55	276.79	As building	
A5	**5.4.Water installations**				**69.15**	**291.57**		
B3	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0	As building	
B3	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0	As building	
B3	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0	As building	
B3	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0	As building	
B3	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		0	As building	
B3	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		0	As building	
B3	**5.4.Water installations**							
C2	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0.074	As building	
C2	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0.019	As building	
C2	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.37	As building	
C2	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		1.93	As building	
C2	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		2.21	As building	
C2	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		41.83	As building	
C2	**5.4.Water installations**					**46.44**		
C3	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0	As building	
C3	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0	As building	
C3	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.033	As building	
C3	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0.17	As building	
C3	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		0	As building	
C3	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		3.76	As building	
C3	**5.4.Water installations**					**3.96**		
C4	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0.065	As building	
C4	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0.017	As building	
C4	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.0025	As building	
C4	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0.013	As building	
C4	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		1.97	As building	
C4	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		0.28	As building	
C4	**5.4.Water installations**					**2.35**		
D	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		-20.26	As building	
D	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		-106.13	As building	
D	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		-2297.7	As building	
D	**5.4.Water installations**							
TOTAL	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		198.25	As building	
TOTAL	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		58.43	As building	
TOTAL	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		98.44	As building	
TOTAL	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		162.72	As building	
TOTAL	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		3555.05	As building	
TOTAL	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		4889.93	As building	
TOTAL	**5.4.Water installations**							
bioC	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0	As building	
bioC	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0	As building	
bioC	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0	As building	
bioC	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0	As building	
bioC	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		0	As building	
bioC	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		0	As building	

bioC	**5.4.Water installations**						
	5.4.Water installations				**2010.27**	**8962.83**	
A1-A3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	45	198.43	45
A1-A3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	45	198.43	45
A1-A3	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg	120	403.78	As building
A1-A3	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg	8588.55	18021.47	35
A1-A3	**5.5.Heat source**				**8798.55**	**18822.1**	
A4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.42	45
A4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.42	45
A4	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0.51	As building
A4	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		79.66	35
A4	**5.5.Heat source**					**81**	
A5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0.45	2.01	45
A5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0.45	2.01	45
A5	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg	3	10.23	As building
A5	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg	0	0	35
A5	**5.5.Heat source**				**3.9**	**14.24**	
B3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
B3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
B3	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0	As building
B3	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		0	35
B3	**5.5.Heat source**						
B4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		200.73	45
B4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		200.73	45
B4	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		18148.6	35
B4	**5.5.Heat source**					**18550.06**	
B5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0	0	45
B5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0	0	45
B5	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg	0	0	35
B5	**5.5.Heat source**						
C2	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		1.72	45
C2	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		1.72	45
C2	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		4.6	As building
C2	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		25.13	35
C2	**5.5.Heat source**					**33.17**	
C3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.15	45
C3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.15	45
C3	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0.25	As building
C3	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		0	35
C3	**5.5.Heat source**					**0.56**	
C4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.012	45
C4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.012	45
C4	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		22.33	35
C4	**5.5.Heat source**					**22.35**	
D	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		-179.47	45
D	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		-179.47	45
D	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		-618.62	As building
D	**5.5.Heat source**						
TOTAL	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		403.48	45
TOTAL	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		403.48	45
TOTAL	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		419.36	As building
TOTAL	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		36297.19	35
TOTAL	**5.5.Heat source**						
bioC	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
bioC	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
bioC	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0	As building
bioC	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		0	35
bioC	**5.5.Heat source**						
	5.5.Heat source				**8802.45**	**37523.5**	
A1-A3	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit	1255.55	10176.32	25
A1-A3	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit	660.96	4773.6	30
A1-A3	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit	1317.33	2106.77	30
A1-A3	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit	22.48	204.08	30
A1-A3	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit	14.68	113.54	30
A1-A3	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit	247.74	1170.67	30
A1-A3	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit	7.93	642.16	30
A1-A3	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit	24.77	237.53	30
A1-A3	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit	53.79	796.97	30
A1-A3	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m	545.92	5523.44	30
A1-A3	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m	513.16	3732.03	60
A1-A3	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m	29.59	72.13	30
A1-A3	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg	1564.34	3848.28	30
A1-A3	**5.6.Space heating and Airconditioning**				**6258.25**	**33397.5**	
A4	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		11.65	25
A4	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		6.13	30
A4	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		12.22	30
A4	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0.21	30
A4	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0.14	30
A4	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		2.3	30
A4	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.074	30
A4	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.25	30
A4	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0.5	30
A4	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		5.06	30
A4	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		4.76	60
A4	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0.091	30
A4	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		15.96	30
A4	**5.6.Space heating and Airconditioning**					**59.34**	
A5	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit	12.56	102.41	25
A5	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit	6.61	48.07	30
A5	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit	13.17	21.74	30
A5	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit	0	0	30
A5	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit	0	0	30
A5	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit	0	0	30
A5	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit	0.079	6.43	30
A5	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit	1.49	14.33	30
A5	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit	0.54	8	30
A5	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m	0	0	30
A5	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m	5.13	37.58	60
A5	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m	2.22	10.01	30
A5	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg	93.86	235.8	30
A5	**5.6.Space heating and Airconditioning**				**135.65**	**484.36**	
B3	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		0	25
B3	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		0	30
B3	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		0	30
B3	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0	30
B3	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0	30
B3	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0	30
B3	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0	30
B3	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0	30
B3	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0	30
B3	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		0	30
B3	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		0	60
B3	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0	30
B3	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		0	30
B3	**5.6.Space heating and Airconditioning**						
B4	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		20481.37	25
B4	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		4807.49	30

B4	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		2174.3	30
B4	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		204.41	30
B4	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		113.76	30
B4	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		1183.37	30
B4	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		642.57	30
B4	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		238.82	30
B4	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		799.73	30
B4	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		5531.52	30
B4	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		133.44	30
B4	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		3929.93	30
B4	**5.6.Space heating and Airconditioning**					**40240.71**	
B5	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit	0	0	25
B5	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit	0	0	30
B5	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m	0	0	30
B5	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m	0	0	30
B5	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg	0	0	30
B5	**5.6.Space heating and Airconditioning**						
C2	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		48.08	25
C2	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		25.31	30
C2	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		50.44	30
C2	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0.066	30
C2	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0.043	30
C2	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		9.49	30
C2	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.3	30
C2	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.95	30
C2	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		2.06	30
C2	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		1.6	30
C2	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		19.65	60
C2	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0.11	30
C2	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		59.9	30
C2	**5.6.Space heating and Airconditioning**					**218**	
C3	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		4.32	25
C3	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		2.27	30
C3	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		4.53	30
C3	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0	30
C3	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0	30
C3	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0.85	30
C3	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.027	30
C3	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.085	30
C3	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0.18	30
C3	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		0	30
C3	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		1.76	60
C3	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		61.11	30
C3	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		5.38	30
C3	**5.6.Space heating and Airconditioning**					**80.53**	
C4	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		0.33	25
C4	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		0.17	30
C4	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		0.34	30
C4	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0.058	30
C4	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0.038	30
C4	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0.064	30
C4	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.0021	30
C4	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.0064	30
C4	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0.014	30
C4	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		1.42	30
C4	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		0.13	60
C4	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		0.41	30
C4	**5.6.Space heating and Airconditioning**					**2.98**	
D	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		-7498.63	25
D	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		-2636.04	30
D	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		-5253.78	30
D	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		-983.12	30
D	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		-31.63	30
D	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		-101.26	30
D	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		-214.52	30
D	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		-1028.39	60
D	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		-79.3	30
D	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		-6363.73	30
D	**5.6.Space heating and Airconditioning**						
TOTAL	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		30824.47	25
TOTAL	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		9663.05	30
TOTAL	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		4370.35	30
TOTAL	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		408.82	30
TOTAL	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		227.51	30
TOTAL	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		2366.73	30
TOTAL	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		1291.56	30
TOTAL	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		491.97	30
TOTAL	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		1607.45	30
TOTAL	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		11063.03	30
TOTAL	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		3795.92	60
TOTAL	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		276.9	30
TOTAL	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		8095.65	30
TOTAL	**5.6.Space heating and Airconditioning**						
bioC	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		0	25
bioC	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		0	30
bioC	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		0	30
bioC	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0	30
bioC	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0	30
bioC	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0	30
bioC	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0	30
bioC	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0	30
bioC	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0	30
bioC	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		0	30
bioC	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		0	60
bioC	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0	30
bioC	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		0	30
bioC	**5.6.Space heating and Airconditioning**						
	5.7.Ventilation systems				**6393.9**	**74483.43**	
A1-A3	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg	39.96	308.12	As building
A1-A3	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg	51.59	322.82	As building
A1-A3	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg	259.21	1163.35	As building
A1-A3	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg	453.4	1958.62	As building
A1-A3	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg	536.29	2555.12	As building
A1-A3	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg	638.45	7013.12	As building
A1-A3	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg	1001.08	5063.63	As building
A1-A3	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m	2371.4	5033.57	30
A1-A3	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m	252.79	923.93	30
A1-A3	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m	286.78	384.46	30
A1-A3	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m	1045.23	3606.44	30
A1-A3	**5.8.Electrical installations**				**6936.17**	**28333.17**	

A4	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0.37	As building
A4	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0.48	As building
A4	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			2.4	As building
A4	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			4.21	As building
A4	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			4.97	As building
A4	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			5.92	As building
A4	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			9.29	As building
A4	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			22	30
A4	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			2.34	30
A4	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			2.93	30
A4	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			9.7	30
A4	**5.8.Electrical installations**						**64.6**	
A5	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg	0.4		3.1	As building
A5	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg	0.52		3.25	As building
A5	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg	2.59		11.77	As building
A5	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg	4.53		19.65	As building
A5	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg	5.36		25.83	As building
A5	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg	6.38		70.46	As building
A5	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg	0		0	As building
A5	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m	23.71		50.69	30
A5	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m	2.53		9.37	30
A5	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m	17.21		23.97	30
A5	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m	10.45		36.6	30
A5	**5.8.Electrical installations**				**73.69**		**254.68**	
B3	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0	As building
B3	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0	As building
B3	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0	As building
B3	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			0	As building
B3	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			0	As building
B3	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			0	As building
B3	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			0	As building
B3	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			0	30
B3	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0	30
B3	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0	30
B3	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			0	30
B3	**5.8.Electrical installations**							
B4	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			5068.67	30
B4	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			936.89	30
B4	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			399.42	30
B4	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			3660.03	30
B4	**5.8.Electrical installations**						**10065.01**	
B5	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m	0		0	30
B5	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m	0		0	30
B5	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m	0		0	30
B5	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m	0		0	30
B5	**5.8.Electrical installations**							
C2	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			1.53	As building
C2	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			1.98	As building
C2	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			9.93	As building
C2	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			1.33	As building
C2	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			20.54	As building
C2	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			24.45	As building
C2	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			2.93	As building
C2	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			6.94	30
C2	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			9.68	30
C2	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			10.98	30
C2	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			40.02	30
C2	**5.8.Electrical installations**						**130.3**	
C3	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0.14	As building
C3	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0.18	As building
C3	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0.89	As building
C3	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			0	As building
C3	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			1.84	As building
C3	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			2.2	As building
C3	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			0	As building
C3	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			0	30
C3	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0.87	30
C3	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0.99	30
C3	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			3.59	30
C3	**5.8.Electrical installations**						**10.7**	
C4	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0.01	As building
C4	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0.013	As building
C4	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0.067	As building
C4	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			1.18	As building
C4	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			0.14	As building
C4	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			0.17	As building
C4	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			2.6	As building
C4	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			6.17	30
C4	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0.066	30
C4	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0.075	30
C4	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			0.27	30
C4	**5.8.Electrical installations**						**10.76**	
D	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			-80.08	As building
D	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			-103.38	As building
D	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			-519.46	As building
D	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			-1074.75	As building
D	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			-1279.46	As building
D	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			-1008.18	30
D	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			-1172.2	30
D	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			-4168.59	30
D	**5.8.Electrical installations**							
TOTAL	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			313.27	As building
TOTAL	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			328.72	As building
TOTAL	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			1188.4	As building
TOTAL	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			1984.99	As building
TOTAL	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			2608.44	As building
TOTAL	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			7116.31	As building
TOTAL	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			5078.45	As building
TOTAL	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			10188.03	30
TOTAL	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			1883.14	30
TOTAL	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			822.81	30
TOTAL	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			7356.65	30
TOTAL	**5.8.Electrical installations**							
bioC	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0	As building
bioC	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0	As building
bioC	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0	As building
bioC	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			0	As building
bioC	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			0	As building
bioC	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			0	As building
bioC	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			0	As building
bioC	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			0	30
bioC	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0	30
bioC	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0	30
bioC	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			0	30
bioC	**5.8.Electrical installations**							
	5.8.Electrical installations				**7009.86**		**38869.22**	
B6a	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	5543	kWh			45230.88	

B6b	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	15900	kWh		129744	
B7	5.Services	Tap water, clean - Thames Water Utilities Ltd	350	m3		411.6	
B7	5.Services	Wastewater - Thames Water Utilities Ltd	350	m3		2349.9	
B7	**5.Services**					**2761.5**	
TOTAL	5.Services	Tap water, clean - Thames Water Utilities Ltd	350	m3		411.6	
TOTAL	5.Services	Wastewater - Thames Water Utilities Ltd	350	m3		2349.9	
TOTAL	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	5543	kWh		45230.88	
TOTAL	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	15900	kWh		129744	
TOTAL	**5.Services**						
	5.Services					**177736.38**	
A5	Other site construction or overall construction stage	Average construction site impacts, scenario for temperate and southern climate, E	1835	m2		25524.85	
TOTAL	Other site construction or overall construction stage	Average construction site impacts, scenario for temperate and southern climate, E	1835	m2		25524.85	
	Other site construction or overall construction stage					**25524.85**	

Whole Life Carbon Comparison Study
Radlett House

+44 (0)20 7043 0418
www.eightversa.com
info@eightersa.com

Appendix B – New Construction – Schedule

Project: 10605 - Radlett House
Property Type: Single family dwelling - **New proposed**
Scope of Work: Whole Life Carbon

Summary - AREAS				
	Name	**TOTAL**	**unit**	**Free notes**
	Basement	733	m2	From Rundell Associates Dwg No. 300, includes the connection between main house and small house
	Ground Floor - Main house	444	m2	From Rundell Associates Dwg No. 301, includes the connection between main house and small house
	Ground Floor - Small house	175	m2	From Sketchup model
	1st Floor	354	m2	From Rundell Associates Dwg No. 302, includes the connection between main house and small house
	Ground Floor - Small house	120	m2	From Sketchup model
	2nd Floor	83	m2	From Rundell Associates Dwg No. 303, includes the connection between main house and small house
	TOTAL GIA of scheme	1909	m2	One Click updated on 18.04.24
	GIA for small house	295	m2	
	GIA for main house	1614	m2	

Summary - FACILITATING WORKS				
0. Facilitating works	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	Demolition			

Summary - MATERIAL INVENTORY				
1. Substructure	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	1.1 Substructure			
	A Secant pile wall	272	no. of piles	Secant wall piling per pile, depth: 5 m, diameter: ø450mm, 600mm spacing, One Click updated on 18.04.24 **(Refer to Secant pile calculation sheet for detail)**
	B Frost insulation (EPS)	163	m	Frost insulation is placed around perimeter of outer wall, width of insulation 600 mm, One Click LCA data
	C Footing foundation - Concrete	88,819	kg	Footing foundations for hard soils (sand, gravel, silt or clay) per GFA, Includes: point and strip footings, One Click LCA data
	C Footing foundation - Reinforcement	5,780	kg	Footing foundations for hard soils (sand, gravel, silt or clay) per GFA, Includes: point and strip footings, One Click LCA data
	D Basement reinforced concrete slab assembly	697	m2	Includes 50 mm cleanliness layer, 300 mm concrete, reinforcement, 200 mm EPS insulation, 0.2 mm vapour control layer, 20 mm self levelling mortar
	E Basement wall assembly	562	m2	Includes bitumen waterproof layer, 200 mm EPS insulation,2 layers of Concrete blockwork and mortar
	F Ground floor slab main house + garage floor	360	m2	Includes 50 mm cleanliness layer, 300 mm concrete, reinforcement, 200 mm EPS insulation, 0.2 mm vapour control layer, 20 mm self levelling mortar
	G Groundwork	4,126	m3	based on emmissions from machine hours required to excavate volume of soil **(Detailed calculations in Excavation sheet)**
2. Superstructure	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	2.1 Steel Frame			Updated on 18.04.24, All information is from OneClick Carbon designer tool by modeling the area of house
	A Columns	101	m	Steel column, UC 203x203x52, 9 m c/c steel column spacing
	B Beam (Primary)	414	m	Steel beam, UB 406x178x60
	B Beam (Secondary)	311	m	Secondary steel beam, UB 305x127x37
	C Connecting parts	167	kg	
	2.2 Upper floors			
	Reinforced concrete slab - Concrete	165	m2	100 mm thick ribdeck slab, C32/40 with 20% recycled content, Steel with 97% recycled content
	Reinforced concrete slab - Reinforcement	20,593	m2	125 kg/m3 reinforcement density, Steel with 97% recycled content
	2.3 Roof			
	Reinforced concrete slab - Concrete	184	m3	200 mm thick reinforced concrete slab, C32/40 with 20% recycled content, Steel with 97% recycled content
	Reinforced concrete slab - Reinforcement	22,952	m2	125 kg/m3 reinforcement density, Steel with 97% recycled content
	Waterproofing membrane system + Insulation	918	m2	
	Roof light	13	m2	Area from sketchup model
	2.4 Stairs and ramps			
	Staff unit stairs - Concrete staircase	7	m	Precast concrete stair
	Residential unit stairs - Steel straight staircase	14	m	Steel frame stair, updated on 18.04.24
	2.5 External walls			
	Masonry cavity wall	1,345	m2	Area from Sketchup,**140mm Blockwork, 175mm Insulation, 100mm Brick , 12.5 mm Gypsum plasterboard and mortar** Updated on 18.04.24
	2.6 Windows and external doors			
	A Windows	291	m2	Area from energy model sheet
	B External Doors	11	m2	Area from doors sheet
	2.7 Internal walls and partitions			
	A Internal walls and partitions	1,219	m2	Wooden internal walls, area from internal walls sheet
	2.8 Internal doors			
	A Internal doors	88	m2	Wooden doors, quantities from OCL carbon designer tool
3. Internal finishes	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	3.1 Wall finishes			
	All areas (except bathrooms)	987	m2	
	Bathrooms	232	m2	
	3.2 Floor finishes			
	Basement	474	m2	
	Residential - Communal areas (upper floors)	1,300	m2	Timber/ stone/ clay
	Bathroom floor area	94	m2	Ceramic tiles
	Pool	42	m2	Ceramic tiles
	3.3 Ceiling finishes			
	All areas (except basement)	1,435	m2	
4. Fittings, furnishings & equipment	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	4.1 *Fittings, furnishings & equipment*			
	NONE	/	/	Provision deemed unfurnished
5. Core building services	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	5.1 Sanitary installations			
	Toilet	14	units	Porcelain sink assumed
	Sink	14	units	Ceramic
	Shower	11	units	
	5.2 Service equipment			
	Combined with 5.4			
	5.3 Disposal installations			
	Sewage water system for single family house	1,909	m2	GIA based template
	5.4 Water installations			
	Water supply system for single family house	1,909	m2	GIA based template
	5.5 Heat source			
	Ground source heat pump	1,909	m2	Ground source heat pump building installation, 150kW, installation consists of: heat exchangers, compressor, HDPE collector pipes, work fluids, curculation pumps
	5.6 Space heating and air conditioning			
	Space heating	1,909	m2	GIA based template
	5.7 Ventilation systems			
	Mechanical Ventilation Heat Recovery (MVHR)	1,909	m2	GIA based template
	5.8 Electrical installations			
	Electric cabling for single family house	1,909	m2	GIA based template
	Lighting system for single family house	1,909	m2	GIA based template
	5.9 Fuel installations and systems			
	NONE			
	5.10 Lift and conveyor installations or systems			
	Lifts x N. floors	1	#	Car lift (The elevator with highest capcity on One click modeled, 7800 kg)
	5.11 Fire and lightning protection			
	Fire protection and detection system for single family house	1,909	m2	GIA based template
	Lightning protection system for single family house	1,909	m2	GIA based template
	5.12 Communication, security and control systems			
	Communication system for single family house	1,909	m2	GIA based template
	5.13 Special installations or systems			
	Earthing system for single family house	1,909	m2	GIA based template
	Photovoltaic panels (monocrystalline)	310	m2	Based on marked up roof Dwg 304 Rev A dated 01/11/2023 by Rundell Associates
	5.14 General builder's work			
	Not included at this stage.			
8. External works	**Name**	**TOTAL**	**unit**	**Specifications, assumptions, free notes**
	NONE			

Section	RICS category	Resource	User input	Unit	Mass of raw materials kg	TOTAL kg CO_2e	Service life
C1	0.2.Major Demolition Work	Deconstruction and demolition process (per GIA)	1835	m2		6239	
TOTAL	0.2.Major Demolition Work	Deconstruction and demolition process (per GIA)	1835	m2		6239	
	0.2.Major Demolition Work					**6239**	
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2	312.96	1447.94	As building
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2	1440	6662.3	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2	259200	29148.93	As building
A1-A3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2	66.6	168	As building
A1-A3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2	10080	4608.79	As building
A1-A3	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2	84037.8	15192.99	As building
A1-A3	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2	63028.35	18799.35	As building
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2	1798.4	8320.48	As building
A1-A3	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2	6114.56	5503.92	As building
A1-A3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2	2788	12898.96	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2	501840	56435.57	As building
A1-A3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2	128.95	325.27	As building
A1-A3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2	19516	8923.14	As building
A1-A3	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2	76670	7573.2	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg	5780.25	3788.41	As building
A1-A3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg	8430	4806.97	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg	9720	6370.54	As building
A1-A3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg	14050	8011.61	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg	18819	12334.07	As building
A1-A3	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg	53741.1	48514.34	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg	88818.6	9988.3	As building
A1-A3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg	767730	93806.64	As building
A1-A3	**1.Substructure**				**1994110.57**	**363629.72**	
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		0.96	As building
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		4.41	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		2021.76	As building
A4	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0.2	As building
A4	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		23.16	As building
A4	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		193.08	As building
A4	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		144.81	As building
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		5.51	As building
A4	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		18.73	As building
A4	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		8.54	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		3914.35	As building
A4	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0.4	As building
A4	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		44.84	As building
A4	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		598.03	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		24.35	As building
A4	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		19.37	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		40.94	As building
A4	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		32.28	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		79.27	As building
A4	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		226.37	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		692.79	As building
A4	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		5988.29	As building
A4	**1.Substructure**					**14082.43**	
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2	12.52	83.86	As building
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2	57.6	385.85	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2	10368	1280.75	As building
A5	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2	6.66	30.6	As building
A5	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2	1310.4	606.44	As building
A5	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2	6302.84	1174.58	As building
A5	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2	4727.13	1436.28	As building
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2	71.94	481.89	As building
A5	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2	611.46	555.64	As building
A5	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2	111.52	747.06	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2	20073.6	2479.68	As building
A5	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2	12.89	59.25	As building
A5	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2	2537.08	1174.14	As building
A5	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2	3066.8	336.88	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg	280.34	196.26	As building
A5	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg	1095.9	631.01	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg	471.42	330.03	As building
A5	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg	1826.5	1051.68	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg	912.72	638.98	As building
A5	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg	2606.44	2469.4	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg	3552.74	438.87	As building
A5	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg	30709.2	4092.28	As building
A5	**1.Substructure**				**90725.7**	**20681.43**	
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		0	As building
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		0	As building
B3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0	As building
B3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		0	As building
B3	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
B3	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		0	As building
B3	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		0	As building
B3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		0	As building
B3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0	As building
B3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		0	As building
B3	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		0	As building
B3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		0	As building
B3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		0	As building
B3	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		0	As building
B3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		0	As building
B3	**1.Substructure**						
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		1.2	As building
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		5.51	As building
C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		758.46	As building
C2	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0.26	As building
C2	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		29.5	As building
C2	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		245.91	As building
C2	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		184.43	As building
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		6.89	As building
C2	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		17.89	As building
C2	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		10.68	As building
C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		1468.47	As building
C2	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0.49	As building
C2	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		57.11	As building
C2	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		224.35	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		221.34	As building
C2	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		24.67	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		372.2	As building
C2	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		41.11	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		720.63	As building
C2	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		2057.89	As building
C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		259.9	As building

C2	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		2246.51	As building
C2	**1.Substructure**					**8955.39**	
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		646.38	As building
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		2974.13	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		89.65	As building
C3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		137.55	As building
C3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		3.49	As building
C3	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		29.07	As building
C3	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		21.8	As building
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		3714.35	As building
C3	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		0	As building
C3	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		5758.24	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		173.58	As building
C3	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		266.32	As building
C3	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		6.75	As building
C3	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		26.52	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		12.58	As building
C3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		2.92	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		21.15	As building
C3	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		4.86	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		40.94	As building
C3	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		116.92	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		30.72	As building
C3	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		265.55	As building
C3	**1.Substructure**					**14343.46**	
C4	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		15.9	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		-448.15	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		-2062.04	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		-6091.16	As building
D	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		-109.59	As building
D	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		-178.73	As building
D	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		-2061.96	As building
D	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		-1546.47	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		-2575.26	As building
D	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		-3992.34	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		-11793.16	As building
D	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		-212.18	As building
D	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		-346.03	As building
D	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		-1251.14	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		-1336.15	As building
D	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		-149.47	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		-2246.85	As building
D	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		-249.12	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		-4350.14	As building
D	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		-24845.26	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		-2087.22	As building
D	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		-18223.77	As building
D	**1.Substructure**						
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		2180.33	As building
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		10032.21	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		33299.56	As building
TOTAL	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		336.62	As building
TOTAL	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		5271.38	As building
TOTAL	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		16835.63	As building
TOTAL	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		20586.67	As building
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		12529.12	As building
TOTAL	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		6112.08	As building
TOTAL	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		19423.47	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		64471.66	As building
TOTAL	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		651.72	As building
TOTAL	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		10205.97	As building
TOTAL	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		8758.98	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		4242.93	As building
TOTAL	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		5484.93	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		7134.87	As building
TOTAL	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		9141.55	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		13813.89	As building
TOTAL	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		53384.91	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		11410.57	As building
TOTAL	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		106399.27	As building
TOTAL	**1.Substructure**						
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	97.8	m2		0	As building
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	360	m2		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	360	m2		0	As building
bioC	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	360	m2		0	As building
bioC	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	360	m2		0	As building
bioC	1.Substructure	Perforated light weight aggregate concrete block, 200 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
bioC	1.Substructure	Perforated light weight aggregate concrete block, 150 x 250 x 500 mm, 770 kg/m3	545.7	m2		0	As building
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	562	m2		0	As building
bioC	1.Substructure	Bitumen-polymer waterproofing for roofs, Etanchéité bicouche bitume-polymère pc	562	m2		0	As building
bioC	1.Substructure	EPS Insulation, T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m2K, 16 kg/m3 (EPS-g	697	m2		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	697	m2		0	As building
bioC	1.Substructure	Plastic vapour control layer, 0.2 mm (Tommen Gram)	697	m2		0	As building
bioC	1.Substructure	Self levelling mortar, for floors, walls and overhead appl., 3-50 mm, 1400 kg/m3, P	697	m2		0	As building
bioC	1.Substructure	Ready-mix concrete, low-strength, generic, C12/15 (1700/2200 PSI), 0% recycled	697	m2		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	5780.25	kg		0	As building
bioC	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	8430	kg		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	9720	kg		0	As building
bioC	1.Substructure	Masonry mortar, light, 1000 kg/m3 (quick-mix)	14050	kg		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 90% recycled content, A615	18819	kg		0	As building
bioC	1.Substructure	Reinforcement steel (rebar), generic, 80% recycled content, A615	53741.1	kg		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	88818.6	kg		0	As building
bioC	1.Substructure	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 0% recyc	767730	kg		0	As building
bioC	**1.Substructure**						
	1.Substructure				**2084836.26**	**421708.33**	
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg	910	596.42	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg	1959.75	1284.43	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg	7056	4624.54	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg	8073	5291.09	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg	14472	1618.48	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg	33600	3757.67	As building
A1-A3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg	35238	23095.17	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg	56448	6312.88	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg	59616	6667.18	As building
A1-A3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg	281904	31526.85	As building
A1-A3	**2.1. Frame**				**499276.75**	**84774.71**	
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg		3.83	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg		8.25	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg		29.72	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg		34	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg		112.88	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg		262.08	As building
A4	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg		148.43	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg		440.29	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg		465	As building
A4	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg		2198.85	As building
A4	**2.1. Frame**					**3703.36**	

A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg		44.14	30.9	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg		95.05	66.54	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg		342.22	239.58	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg		391.54	274.11	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg		578.88	71.15	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg		1344	165.19	As building
A5	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg		1709.04	1196.48	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg		2257.92	277.52	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg		2384.64	293.09	As building
A5	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg		11276.16	1385.92	As building
A5	**2.1. Frame**					**20423.58**	**4000.47**	
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			0	As building
B3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			0	As building
B3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			0	As building
B3	**2.1. Frame**							
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			34.85	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			75.04	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			270.19	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			309.14	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			42.35	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			98.32	As building
C2	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			1349.35	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			165.18	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			174.45	As building
C2	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			824.9	As building
C2	**2.1. Frame**						**3343.76**	
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			1.98	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			4.26	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			15.35	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			17.56	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			5.01	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			11.62	As building
C3	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			76.66	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			19.52	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			20.62	As building
C3	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			97.51	As building
C3	**2.1. Frame**						**270.1**	
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			-210.35	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			-453.01	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			-1631.04	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			-1866.13	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			-340.09	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			-789.59	As building
D	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			-8145.51	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			-1326.52	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			-1400.97	As building
D	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			-6624.7	As building
D	**2.1. Frame**							
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			667.98	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			1438.53	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			5179.38	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			5925.9	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			1849.87	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			4294.88	As building
TOTAL	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			25866.09	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			7215.4	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			7620.34	As building
TOTAL	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			36034.03	As building
TOTAL	**2.1. Frame**							
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	910	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	1959.75	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	7056	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	8073	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	14472	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	33600	kg			0	As building
bioC	2.1. Frame	Reinforcement steel (rebar), generic, 90% recycled content, A615	35238	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	56448	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	59616	kg			0	As building
bioC	2.1. Frame	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	281904	kg			0	As building
bioC	**2.1. Frame**							
	2.1. Frame					**519700.33**	**96092.4**	
A1-A3	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3		367200	38005.96	As building
A1-A3	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg		20593	9965.29	As building
A1-A3	**2.2.Upper floor**					**387793**	**47971.25**	
A4	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			2864.16	As building
A4	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			86.74	As building
A4	**2.2.Upper floor**						**2950.9**	
A5	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3		14688	1682.86	As building
A5	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg		998.76	527.94	As building
A5	**2.2.Upper floor**					**15686.76**	**2210.81**	
B3	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			0	As building
B3	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			0	As building
B3	**2.2.Upper floor**							
C2	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			1074.49	As building
C2	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			788.56	As building
C2	**2.2.Upper floor**						**1863.05**	
C3	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			127.01	As building
C3	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			44.8	As building
C3	**2.2.Upper floor**						**171.81**	
D	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			-8454.82	As building
D	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			-1428.06	As building
D	**2.2.Upper floor**							
TOTAL	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			43754.48	As building
TOTAL	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			11413.34	As building
TOTAL	**2.2.Upper floor**							
bioC	2.2.Upper floor	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	153	m3			0	As building
bioC	2.2.Upper floor	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	20593	kg			0	As building
bioC	**2.2.Upper floor**							
	2.2.Upper floor					**403479.76**	**55167.82**	
A1-A3	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fen	13	m2		463.58	1128.25	40
A1-A3	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		441600	45706.51	As building
A1-A3	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		28917	6566.53	As building
A1-A3	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		286.42	670.41	60
A1-A3	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		6885	8967.52	As building
A1-A3	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		1377	1122.56	60
A1-A3	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		22952	11106.85	As building
A1-A3	**2.3.Roofs**					**502481**	**75268.65**	
A4	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fen	13	m2			2.31	40
A4	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3			3444.48	As building
A4	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2			66.44	As building

A4	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		0.88	60	
A4	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		15.82	As building	
A4	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		16.6	60	
A4	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		96.68	As building	
A4	**2.3.Roofs**					**3643.2**		
A5	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2	0	0	40	
A5	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3	17664	2023.84	As building	
A5	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2	0	0	As building	
A5	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2	28.64	126.39	60	
A5	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2	550.8	721.71	As building	
A5	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2	137.7	114.68	60	
A5	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg	1113.17	588.42	As building	
A5	**2.3.Roofs**				**19494.31**	**3575.04**		
B3	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		0	40	
B3	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		0	As building	
B3	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		0	As building	
B3	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		0	60	
B3	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		0	As building	
B3	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		0	60	
B3	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		0	As building	
B3	**2.3.Roofs**							
B4	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		1148.65	40	
B5	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2	0	0	40	
C2	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		17.75	40	
C2	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		1292.2	As building	
C2	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		84.62	As building	
C2	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		1.1	60	
C2	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		20.15	As building	
C2	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		4.03	60	
C2	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		878.89	As building	
C2	**2.3.Roofs**					**2298.73**		
C3	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		243.72	40	
C3	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		152.74	As building	
C3	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		10	As building	
C3	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		591.55	60	
C3	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		0	As building	
C3	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		0	60	
C3	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		49.93	As building	
C3	**2.3.Roofs**					**1047.95**		
C4	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		0.24	40	
C4	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		17.9	As building	
C4	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		3.58	60	
C4	**2.3.Roofs**					**21.72**		
D	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		-9.71	40	
D	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		-10167.88	As building	
D	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		-1275.03	As building	
D	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		-471.29	60	
D	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		-1591.65	As building	
D	**2.3.Roofs**							
TOTAL	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		2297.3	40	
TOTAL	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		52619.77	As building	
TOTAL	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		6727.59	As building	
TOTAL	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		1390.34	60	
TOTAL	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		9743.1	As building	
TOTAL	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		1261.45	60	
TOTAL	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		12720.78	As building	
TOTAL	**2.3.Roofs**							
bioC	2.3.Roofs	Roof window (skylight), biogenic CO2 not subtracted (for CML), 35.66 kg/m2, Fene	13	m2		-243.62	40	
bioC	2.3.Roofs	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM	184	m3		0	As building	
bioC	2.3.Roofs	Concrete roof tiles, Avg. thickness per m2: 22.4 mm, 334x420 mm, 2100 kg/m3 (E	918	m2		0	As building	
bioC	2.3.Roofs	Geotextile, generic, 312 g/m2 (1.02 oz/ft2), Composition: PP net, non-woven PE fe	918	m2		0	60	
bioC	2.3.Roofs	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	918	m2		0	As building	
bioC	2.3.Roofs	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	918	m2		0	60	
bioC	2.3.Roofs	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	22952	kg		0	As building	
bioC	**2.3.Roofs**					**-243.62**		
	2.3.Roofs				**521975.31**	**86760.32**		
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3	10054.8	1130.74	As building	
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3	20109.6	2261.47	As building	
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3	28980	3259.01	As building	
A1-A3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3	57960	6518.03	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg	418.95	274.58	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg	837.9	549.16	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg	1207.5	791.4	As building	
A1-A3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg	2415	1582.8	As building	
A1-A3	**2.4.Stairs and ramps**				**121983.75**	**16367.2**		
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		78.43	As building	
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		156.85	As building	
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		226.04	As building	
A4	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		452.09	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		1.76	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		3.53	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		5.09	As building	
A4	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		10.17	As building	
A4	**2.4.Stairs and ramps**					**933.97**		
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3	402.19	49.68	As building	
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3	804.38	99.37	As building	
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3	1159.2	143.2	As building	
A5	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3	2318.4	286.39	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg	20.32	14.23	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg	40.64	28.45	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg	58.56	41	As building	
A5	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg	117.13	82	As building	
A5	**2.4.Stairs and ramps**				**4920.82**	**744.31**		
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		0	As building	
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		0	As building	
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		0	As building	
B3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		0	As building	
B3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		0	As building	
B3	**2.4.Stairs and ramps**							
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		29.42	As building	
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		58.84	As building	
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		84.8	As building	
C2	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		169.6	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		16.04	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		32.09	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		46.24	As building	
C2	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		92.48	As building	
C2	**2.4.Stairs and ramps**					**529.51**		
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		3.48	As building	
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		6.96	As building	
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		10.02	As building	
C3	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		20.05	As building	
C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		0.91	As building	
C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		1.82	As building	

C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		2.63	As building	
C3	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		5.25	As building	
C3	**2.4.Stairs and ramps**					**51.12**		
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		-236.29	As building	
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		-472.57	As building	
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		-681.03	As building	
D	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		-1362.05	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		-96.84	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		-193.69	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		-279.12	As building	
D	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		-558.24	As building	
D	**2.4.Stairs and ramps**							
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		1291.75	As building	
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		2583.49	As building	
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		3723.08	As building	
TOTAL	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		7446.15	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		307.53	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		615.05	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		886.35	As building	
TOTAL	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		1772.71	As building	
TOTAL	**2.4.Stairs and ramps**							
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	4.1895	m3		0	As building	
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	8.379	m3		0	As building	
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	12.075	m3		0	As building	
bioC	2.4.Stairs and ramps	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typ	24.15	m3		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	418.95	kg		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	837.9	kg		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	1207.5	kg		0	As building	
bioC	2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	2415	kg		0	As building	
bioC	**2.4.Stairs and ramps**							
	2.4.Stairs and ramps				**126904.57**	**18626.1**		
A1-A3	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg	0	0		10
A1-A3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2	217.89	50.82	As building	
A1-A3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2	651.66	151.98	As building	
A1-A3	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2	171662.21	36564.05	As building	
A1-A3	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2	82704.05	25384.35	As building	
A1-A3	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2	20175	26277.39	As building	
A1-A3	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2	14425.6	4132.36	As building	
A1-A3	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2	4438.5	602.82		30
A1-A3	**2.5.External walls**				**294274.91**	**93163.77**		
A4	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0.5	As building	
A4	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		1.5	As building	
A4	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		394.4	As building	
A4	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		190.02	As building	
A4	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		46.35	As building	
A4	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		33.14	As building	
A4	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		10.2		30
A4	**2.5.External walls**					**676.11**		
A5	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg	0	0		10
A5	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2	28.33	6.76	As building	
A5	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2	84.72	20.23	As building	
A5	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2	8583.11	1876.01	As building	
A5	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2	6202.8	1938.37	As building	
A5	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2	1614	2114.82	As building	
A5	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2	1803.2	561.54	As building	
A5	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2	577.01	82.88		30
A5	**2.5.External walls**				**18893.16**	**6600.61**		
B3	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
B3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0	As building	
B3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		0	As building	
B3	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		0	As building	
B3	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		0	As building	
B3	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		0	As building	
B3	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		0	As building	
B3	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		0		30
B3	**2.5.External walls**							
B4	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
B4	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		637.55		30
B4	**2.5.External walls**					**637.55**		
B5	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg	0	0		10
B5	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2	0	0		30
B5	**2.5.External walls**							
C2	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0.64	As building	
C2	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		1.91	As building	
C2	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		502.31	As building	
C2	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		242.01	As building	
C2	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		59.04	As building	
C2	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		316.59	As building	
C2	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		12.99		30
C2	**2.5.External walls**					**1135.48**		
C3	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
C3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0.075	As building	
C3	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		0.23	As building	
C3	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		59.38	As building	
C3	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		28.61	As building	
C3	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		0	As building	
C3	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		10.22	As building	
C3	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		0		30
C3	**2.5.External walls**					**98.5**		
C4	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		52.46	As building	
C4	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		11.54		30
C4	**2.5.External walls**					**64**		
D	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		-3.86	As building	
D	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		-11.55	As building	
D	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		-707.6	As building	
D	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		-2029.23	As building	
D	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		-35.7	As building	
D	**2.5.External walls**							
TOTAL	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
TOTAL	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		58.79	As building	
TOTAL	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		175.84	As building	
TOTAL	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		39396.15	As building	
TOTAL	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		27783.35	As building	
TOTAL	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		28550.05	As building	
TOTAL	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		5053.85	As building	
TOTAL	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		1357.98		30
TOTAL	**2.5.External walls**							
bioC	2.5.External walls	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	0	kg		0		10
bioC	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	72.63	m2		0	As building	
bioC	2.5.External walls	Masonry mortar/facing wall mortar/mortar with special properties, 1500 kg/m3, EPI	217.22	m2		0	As building	
bioC	2.5.External walls	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 14	1127.78	m2		0	As building	
bioC	2.5.External walls	Lightweight concrete block, with expanded clay aggregate, generic, 650 kg/m3 (40	1272.37	m2		0	As building	
bioC	2.5.External walls	Rock wool insulation panels, unfaced, generic, L = 0.037 W/mK, R = 2.70 m2K/W	1345	m2		0	As building	
bioC	2.5.External walls	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1345	m2		0	As building	
bioC	2.5.External walls	Gypsum plaster, 1100 kg/m3 (Bundesverband der Gipsindustrie)	1345	m2		0		30
bioC	**2.5.External walls**							
	2.5.External walls				**313168.07**	**102376.01**		

A1-A3	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2	404.8	566.6	40
A1-A3	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg	130.95	2306.06	As building
A1-A3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	4365	5334.67	35
A1-A3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	4365	5334.67	35
A1-A3	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg	1746	809.01	As building
A1-A3	**2.6.Windows and external doors**				**11011.75**	**14351.02**	
A4	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		2.02	40
A4	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0.55	As building
A4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		10.03	35
A4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		10.03	35
A4	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		8.69	As building
A4	**2.6.Windows and external doors**					**31.32**	
A5	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2	0	0	40
A5	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg	9.82	173.39	As building
A5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	43.65	55.13	35
A5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	43.65	55.13	35
A5	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg	312.53	151.58	As building
A5	**2.6.Windows and external doors**				**409.66**	**435.24**	
B3	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		0	40
B3	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0	As building
B3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
B3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
B3	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		0	As building
B3	**2.6.Windows and external doors**						
B4	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		584.41	40
B4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		5512.99	35
B4	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		5512.99	35
B4	**2.6.Windows and external doors**					**11610.39**	
B5	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2	0	0	40
B5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	0	0	35
B5	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2	0	0	35
B5	**2.6.Windows and external doors**						
C2	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		15.5	40
C2	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		5.01	As building
C2	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		167.15	35
C2	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		167.15	35
C2	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		6.69	As building
C2	**2.6.Windows and external doors**					**361.5**	
C3	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		293.78	40
C3	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0.27	As building
C3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		1.14	35
C3	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		1.14	35
C3	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		3252.55	As building
C3	**2.6.Windows and external doors**					**3548.89**	
C4	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		0.21	40
D	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		-8.48	40
D	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		-1168.16	As building
D	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		-114.83	35
D	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		-114.83	35
D	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		-1277.97	As building
D	**2.6.Windows and external doors**						
TOTAL	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		1168.81	40
TOTAL	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		2485.3	As building
TOTAL	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		11081.11	35
TOTAL	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		11081.11	35
TOTAL	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		998.42	As building
TOTAL	**2.6.Windows and external doors**						
bioC	2.6.Windows and external doors	Exterior wooden door and windows, double glazed, 24mm, 1.48m x 0.9mm, 36.8k	11	m2		-293.7	40
bioC	2.6.Windows and external doors	Aluminum profile for windows and doors, 2600 kg/m3, Al Profile (Saray)	130.95	kg		0	As building
bioC	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
bioC	2.6.Windows and external doors	Float glass, single pane, generic, 3-12 mm (0.12-0.47 in), 10 kg/m2 (2.05 lbs/ft2) (	291	m2		0	35
bioC	2.6.Windows and external doors	Wooden decking, cladding and planed timber for joinery applications, 540kg/m3, M	1746	kg		-3230.1	As building
bioC	**2.6.Windows and external doors**					**-3523.8**	
	2.6.Windows and external doors				**11421.41**	**26814.75**	
A1-A3	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2	5820.02	835.73	As building
A1-A3	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2	2694	2934.77	As building
A1-A3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	13597.17	3895.05	As building
A1-A3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	13597.17	3895.05	As building
A1-A3	**2.7.Internal walls and partitions**				**35708.37**	**11560.61**	
A4	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		28.97	As building
A4	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		6.19	As building
A4	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		31.24	As building
A4	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		31.24	As building
A4	**2.7.Internal walls and partitions**					**97.64**	
A5	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2	1041.78	172.17	As building
A5	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2	215.52	236.47	As building
A5	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	1699.65	529.29	As building
A5	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2	1699.65	529.29	As building
A5	**2.7.Internal walls and partitions**				**4656.6**	**1467.22**	
B3	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		0	As building
B3	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		0	As building
B3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
B3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
B3	**2.7.Internal walls and partitions**						
C2	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		22.29	As building
C2	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		7.88	As building
C2	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		298.41	As building
C2	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		298.41	As building
C2	**2.7.Internal walls and partitions**					**626.98**	
C3	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		9220.58	As building
C3	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		0	As building
C3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		9.63	As building
C3	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		9.63	As building
C3	**2.7.Internal walls and partitions**					**9239.84**	
C4	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		7	As building
D	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		-4259.92	As building
D	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		-33.65	As building
D	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		-33.65	As building
D	**2.7.Internal walls and partitions**						
TOTAL	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		1133.98	As building
TOTAL	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		3192.32	As building
TOTAL	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		4763.62	As building
TOTAL	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		4763.62	As building
TOTAL	**2.7.Internal walls and partitions**						
bioC	2.7.Internal walls and partitions	Planed timber, conifer (Treindustrien)	141.4	m2		-9145.75	As building
bioC	2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W	1077.6	m2		0	As building
bioC	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
bioC	2.7.Internal walls and partitions	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1219	m2		0	As building
bioC	**2.7.Internal walls and partitions**					**-9145.75**	
	2.7.Internal walls and partitions				**40364.96**	**13853.55**	
A1-A3	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2	1144	1135.82	40
A1-A3	**2.8.Internal doors**				**1144**	**1135.82**	
A4	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2		5.69	40
A5	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2	0	0	40
A5	**2.8.Internal doors**						
B3	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2		0	40
B3	**2.8.Internal doors**						

B4	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			1158.25	40
B5	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2		0	0	40
C2	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			4.38	40
C3	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			2109.1	40
C3	**2.8.Internal doors**						**2109.1**	
C4	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			0.59	40
D	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			0	40
TOTAL	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			2316.51	40
TOTAL	**2.8.Internal doors**							
bioC	2.8.Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huis	88	m2			-2097.33	40
bioC	**2.8.Internal doors**						**-2097.33**	
	2.8.Internal doors					**1144**	**2316.51**	
A1-A3	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2		2784	13.55	30
A1-A3	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2		149	241.61	15
A1-A3	**3.1.Wall finishes**					**2933**	**255.16**	
A4	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			6.4	30
A4	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			1.8	15
A4	**3.1.Wall finishes**						**8.19**	
A5	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2		278.4	2.91	30
A5	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2		14.9	24.42	15
A5	**3.1.Wall finishes**					**293.3**	**27.33**	
B3	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			0	30
B3	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0	15
B3	**3.1.Wall finishes**							
B4	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			29.06	30
B4	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			732.68	15
B4	**3.1.Wall finishes**						**761.74**	
B5	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2		0	0	30
B5	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2		0	0	15
B5	**3.1.Wall finishes**							
C2	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			8.15	30
C2	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0.44	15
C2	**3.1.Wall finishes**						**8.58**	
C3	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			0.96	30
C3	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0	15
C3	**3.1.Wall finishes**						**0.96**	
C4	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0.39	15
D	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			-22.95	30
TOTAL	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			61.02	30
TOTAL	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			1001.34	15
TOTAL	**3.1.Wall finishes**							
bioC	3.1.Wall finishes	Ceramic wall tile, 6 mm, average density 2000 kg/m3 (Mosa)	232	m2			0	30
bioC	3.1.Wall finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	987	m2			0	15
bioC	**3.1.Wall finishes**							
	3.1.Wall finishes					**3226.3**	**1062.36**	
A1-A3	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2		152.46	691.23	As building
A1-A3	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		141	114.95	20
A1-A3	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2		131.6	60.17	As building
A1-A3	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		2256	1483.7	30
A1-A3	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		22.75	65.47	10
A1-A3	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		226.81	572.14	30
A1-A3	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		15460.82	11129.89	As building
A1-A3	**3.2.Floor finishes**					**18391.44**	**14117.54**	
A4	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			0.47	As building
A4	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			1.7	20
A4	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0.3	As building
A4	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			5.18	30
A4	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0.27	10
A4	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			0.69	30
A4	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			76.96	As building
A4	**3.2.Floor finishes**						**85.59**	
A5	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2		6.1	40.29	As building
A5	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		14.1	11.74	20
A5	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2		17.11	7.92	As building
A5	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		225.6	149.63	30
A5	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		2.28	6.59	10
A5	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		22.68	104.21	30
A5	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		2767.49	2052.21	As building
A5	**3.2.Floor finishes**					**3055.35**	**2372.58**	
B3	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			0	As building
B3	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0	20
B3	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0	As building
B3	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			0	30
B3	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0	10
B3	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			0	30
B3	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			0	As building
B3	**3.2.Floor finishes**							
B4	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			234.85	20
B4	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			1496.27	30
B4	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			329.33	10
B4	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			1042.15	30
B4	**3.2.Floor finishes**						**3102.6**	
B5	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		0	0	20
B5	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		0	0	30
B5	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		0	0	10
B5	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		0	0	30
B5	**3.2.Floor finishes**							
C2	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			0.58	As building
C2	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0.41	20
C2	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0.39	As building
C2	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			6.6	30
C2	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0.067	10
C2	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			0.87	30
C2	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			59.2	As building
C2	**3.2.Floor finishes**						**68.12**	
C3	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			314.89	As building
C3	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0	20
C3	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			0.046	As building
C3	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			0.78	30
C3	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0	10
C3	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			468.45	30
C3	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			26472.93	As building
C3	**3.2.Floor finishes**						**27257.09**	
C4	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			0.37	20
C4	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			0.059	10
C4	**3.2.Floor finishes**						**0.43**	
D	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			-218.32	As building
D	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			-2.33	As building
D	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			-18.6	30
D	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2			-712.49	30
D	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2			-11316.42	As building
D	**3.2.Floor finishes**							
TOTAL	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2			1047.45	As building
TOTAL	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2			364.02	20
TOTAL	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2			68.82	As building
TOTAL	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2			3142.16	30
TOTAL	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2			401.78	10

TOTAL	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		2188.51	30	
TOTAL	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		13517.05	As building	
TOTAL	**3.2.Floor finishes**							
bioC	3.2.Floor finishes	Permanent non-load-bearing shuttering and insulation system from EPS blocks for	42	m2		0	As building	
bioC	3.2.Floor finishes	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	94	m2		0	20	
bioC	3.2.Floor finishes	Tile adhesive, all round, for ceramics, 1-5 mm, 1400 kg/m3, Verlegemörtel (PCI Au	94	m2		0	As building	
bioC	3.2.Floor finishes	Ceramic wall tiles, 7.5 mm, 3000 kg/m2 (Seranit Granit Seramik)	94	m2		0	30	
bioC	3.2.Floor finishes	Acrylic paint for concrete floors, 1.2 kg/l, 37% solids/volume, 8-10 m2/l, TRESTJE	474	m2		0	10	
bioC	3.2.Floor finishes	Plastic vapour control layer, 0.2 mm (Tommen Gram)	1226	m2		0	30	
bioC	3.2.Floor finishes	Massive wooden flooring/parquet, 22-450 x 44-7000 x 8-35 mm, 11.71 kg/m2 (Ver	1226	m2		-26274.15	As building	
bioC	**3.2.Floor finishes**					**-26274.15**		
	3.2.Floor finishes				**21446.79**	**20729.79**		
A1-A3	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg	364.64	591.28	15	
A1-A3	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2	15181.09	4348.78	As building	
A1-A3	**3.3.Ceiling finishes**				**15545.73**	**4940.07**		
A4	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		4.4	15	
A4	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		34.88	As building	
A4	**3.3.Ceiling finishes**					**39.28**		
A5	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg	36.46	59.77	15	
A5	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2	1897.64	590.95	As building	
A5	**3.3.Ceiling finishes**				**1934.1**	**650.72**		
B3	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0	15	
B3	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		0	As building	
B3	**3.3.Ceiling finishes**							
B4	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		1793.09	15	
B5	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg	0	0	15	
C2	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		1.07	15	
C2	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		333.17	As building	
C2	**3.3.Ceiling finishes**					**334.24**		
C3	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0	15	
C3	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		10.75	As building	
C3	**3.3.Ceiling finishes**					**10.75**		
C4	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0.95	15	
D	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		-37.57	As building	
TOTAL	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		2450.56	15	
TOTAL	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		5318.53	As building	
TOTAL	**3.3.Ceiling finishes**							
bioC	3.3.Ceiling finishes	Water-borne interior paints, 1.36 kg/L, average coverage 8-10 m2/L, Biora, Ekora,	364.64	kg		0	15	
bioC	3.3.Ceiling finishes	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (	1361	m2		0	As building	
bioC	**3.3.Ceiling finishes**							
	3.3.Ceiling finishes				**17479.83**	**7769.09**		
A1-A3	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit	352	2109.43	As building	
A1-A3	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit	233.8	429.72	As building	
A1-A3	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit	487.2	895.47	As building	
A1-A3	**5.1.Sanitary installations**				**1073**	**3434.63**		
A4	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		3.27	As building	
A4	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		2.17	As building	
A4	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		4.52	As building	
A4	**5.1.Sanitary installations**					**9.95**		
A5	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit	0	0	As building	
A5	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit	0	0	As building	
A5	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit	0	0	As building	
A5	**5.1.Sanitary installations**							
B3	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0	As building	
B3	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0	As building	
B3	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		0	As building	
B3	**5.1.Sanitary installations**							
C2	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		1.03	As building	
C2	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0.68	As building	
C2	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		1.43	As building	
C2	**5.1.Sanitary installations**					**3.14**		
C3	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0	As building	
C3	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0	As building	
C3	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		0	As building	
C3	**5.1.Sanitary installations**							
C4	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0.92	As building	
C4	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0.61	As building	
C4	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		1.27	As building	
C4	**5.1.Sanitary installations**					**2.79**		
TOTAL	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		2114.64	As building	
TOTAL	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		433.19	As building	
TOTAL	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		902.69	As building	
TOTAL	**5.1.Sanitary installations**							
bioC	5.1.Sanitary installations	Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 1	11	unit		0	As building	
bioC	5.1.Sanitary installations	Ceramic bathroom washbasin, 16.7 kg/unit, 850 × 460 × 150 mm (One Click LCA)	14	unit		0	As building	
bioC	5.1.Sanitary installations	Ceramic toilet with flush tank (cistern), 34.8 kg/unit, 980 × 360 × 430 mm (One Clic	14	unit		0	As building	
bioC	**5.1.Sanitary installations**							
	5.1.Sanitary installations				**1073**	**3450.51**		
A1-A3	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit	7826	46221.87	40	
A4	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		72.59	40	
A5	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit	0	0	40	
B3	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		0	40	
B4	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		46623.09	40	
B5	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit	0	0	40	
C2	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		299.68	40	
C3	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		26.92	40	
C4	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		2.03	40	
D	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		-31056.39	40	
TOTAL	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		93246.18	40	
bioC	5.10.Lift and conveyor installations/systems	Elevator components independent of floor count: cabin, counterweight, motor pulle	1	unit		0	40	
	5.10.Lift and conveyor installations/systems				**7826**	**93246.18**		
A1-A3	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit	0.074	60.72	20	
A1-A3	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218 4	1.84	unit	2.73	13.57	20	
A1-A3	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit	13.2	60.34	20	
A1-A3	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit	2.72	191.36	20	
A1-A3	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit	10.87	109.34	20	
A1-A3	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit	1.13	6.76	20	
A1-A3	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit	5.33	68.4	20	
A1-A3	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit	0.93	6.55	20	
A1-A3	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit	15.91	843.87	20	
A1-A3	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m	4.17	32.06	20	
A1-A3	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit	53.22	486.39	20	
A1-A3	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg	229.38	848.8	20	
A1-A3	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m	2361.65	9952.95	30	
A1-A3	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRC	1449.65	m	334.87	1446.59	20	
A1-A3	**5.11.Fire and lightning protection**				**3036.18**	**14127.7**		
A4	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		0.00068	20	
A4	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218 4	1.84	unit		0.025	20	
A4	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		0.12	20	
A4	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		0.025	20	
A4	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		0.1	20	
A4	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		0.01	20	
A4	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		0.049	20	
A4	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		0.0086	20	
A4	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		0.061	20	
A4	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		0.039	20	
A4	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		0.49	20	

A4	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			2.34	20
A4	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			9.95	30
A4	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			3.11	20
A4	**5.11.Fire and lightning protection**						**16.33**	
A5	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit	0.027	0.14	0.14	20
A5	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit	0.13	0.61	0.61	20
A5	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit	0.027	1.91	1.91	20
A5	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit	0.011	0.068	0.068	20
A5	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit	0.0093	0.066	0.066	20
A5	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit	0	0	0	20
A5	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m	0.042	0.32	0.32	20
A5	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit	0.53	4.89	4.89	20
A5	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg	13.76	51.65	51.65	20
A5	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m	177.12	754.39	754.39	30
A5	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m	3.35	14.52	14.52	20
A5	**5.11.Fire and lightning protection**				**195.02**	**828.56**		
B3	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		0	0	20
B3	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		0	0	20
B3	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		0	0	20
B3	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		0	0	20
B3	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		0	0	20
B3	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		0	0	20
B3	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		0	0	20
B3	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		0	0	20
B3	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		0	0	20
B3	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		0	0	30
B3	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m		0	0	20
B3	**5.11.Fire and lightning protection**							
B4	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			121.45	20
B4	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			27.42	20
B4	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			122.04	20
B4	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			383	20
B4	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			219.8	20
B4	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			13.63	20
B4	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			137.34	20
B4	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			13.19	20
B4	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			1689.2	20
B4	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			64.24	20
B4	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			978.23	20
B4	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			1721.54	20
B4	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			10058.47	30
B4	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			2903.1	20
B4	**5.11.Fire and lightning protection**						**18452.66**	
B5	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit	0	0	0	20
B5	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m	0	0	0	20
B5	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit	0	0	0	20
B5	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg	0	0	0	20
B5	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m	0	0	0	30
B5	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m	0	0	0	20
B5	**5.11.Fire and lightning protection**							
C2	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			0.0028	20
C2	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			0.1	20
C2	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			0.51	20
C2	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			0.1	20
C2	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			0.42	20
C2	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			0.043	20
C2	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			0.2	20
C2	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			0.035	20
C2	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			0.61	20
C2	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			0.012	20
C2	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			2.04	20
C2	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			8.78	20
C2	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			90.43	30
C2	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			0.98	20
C2	**5.11.Fire and lightning protection**						**104.27**	
C3	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			0.00025	20
C3	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			0.0094	20
C3	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			0.045	20
C3	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			0.0094	20
C3	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			0.037	20
C3	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			0.0039	20
C3	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			0.018	20
C3	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			0.0032	20
C3	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			0.055	20
C3	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			0	20
C3	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			0.18	20
C3	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			0.79	20
C3	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m			5.14	30
C3	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			0	20
C3	**5.11.Fire and lightning protection**						**6.29**	
C4	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			0.000019	20
C4	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			0.00071	20
C4	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			0.0034	20
C4	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			0.00071	20
C4	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			0.0028	20
C4	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			0.00029	20
C4	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			0.0014	20
C4	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			0.00024	20
C4	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			0.0041	20
C4	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m			0.011	20
C4	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit			0.014	20
C4	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg			0.06	20
C4	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m			0.87	20
C4	**5.11.Fire and lightning protection**						**0.97**	
D	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit			-0.44	20
D	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit			-16.32	20
D	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit			-78.81	20
D	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit			-16.27	20
D	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit			-64.73	20
D	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit			-6.74	20
D	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit			-31.75	20
D	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit			-5.53	20
D	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit			-94.72	20

D	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		-317.82	20
D	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		-1392.7	20
D	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		-10803.67	30
D	**5.11.Fire and lightning protection**						
TOTAL	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		182.17	20
TOTAL	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit		41.26	20
TOTAL	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		183.67	20
TOTAL	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		576.41	20
TOTAL	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		329.7	20
TOTAL	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		20.52	20
TOTAL	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		206.01	20
TOTAL	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		19.86	20
TOTAL	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		2533.8	20
TOTAL	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		96.69	20
TOTAL	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		1472.23	20
TOTAL	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		2633.96	20
TOTAL	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		20871.33	30
TOTAL	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m		4369.16	20
TOTAL	**5.11.Fire and lightning protection**						
bioC	5.11.Fire and lightning protection	Power supply, 0.04 kg/unit, Securitron AQD6 Series Power Supplies (Assa Abloy)	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Multimedia box with telephone, TV and LAN outputs, 1.485 kg/unit, RJ45 413218	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Metallic electrical equipment box/cabinet, 904421N (LEGRAND)	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Electrical control panel, IB+ Touch Building Controller (SOMFY)	1.84	unit		0	20
bioC	5.11.Fire and lightning protection	Audible signaling device (siren), Matériel de signalisation phonique (sirène) (DONI	3.67	unit		0	20
bioC	5.11.Fire and lightning protection	Output module, flush mounted, 0.123 kg/unit, TXB692F TYB692F; TYB602F; TYB	9.18	unit		0	20
bioC	5.11.Fire and lightning protection	Autonomous fire alarm system, BAASL Sa (1 405 31) (Legrand)	9.18	unit		0	20
bioC	5.11.Fire and lightning protection	Indicator light push buttom, 0.0505 kg/unit, A9E18037 0 (SCHNEIDER ELECTRIC	18.35	unit		0	20
bioC	5.11.Fire and lightning protection	Electromagnetic door holders and releasers, 0.8672 kg/unit, Rixson 99X Series El	18.35	unit		0	20
bioC	5.11.Fire and lightning protection	Copper data cable, plenum rated, 0.0454 kg/m, 10Gain XP 6A (Superior Essex)	91.75	m		0	20
bioC	5.11.Fire and lightning protection	Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEM	106.43	unit		0	20
bioC	5.11.Fire and lightning protection	PVC resin pipes, for sewerage, drainage and conduits application, 16 - 315 mm, 1	229.38	kg		0	20
bioC	5.11.Fire and lightning protection	Galvanized steel edging, 2.5 mm, H = 120 mm, 2.34 kg/m, Bordure en acier galva	1009.25	m		0	30
bioC	5.11.Fire and lightning protection	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	1449.65	m		0	20
bioC	**5.11.Fire and lightning protection**						
	5.11.Fire and lightning protection				**3231.19**	**33536.78**	
A1-A3	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m	39.62	202.84	30
A1-A3	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m	115.94	485.23	30
A1-A3	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m	183.39	580.82	30
A1-A3	**5.12.Communication, Security and Control Systems**				**338.94**	**1268.89**	
A4	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0.37	30
A4	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		1.08	30
A4	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		1.7	30
A4	**5.12.Communication, Security and Control Systems**					**3.14**	
A5	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m	0.4	2.03	30
A5	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m	1.16	4.87	30
A5	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m	1.83	5.84	30
A5	**5.12.Communication, Security and Control Systems**				**3.39**	**12.74**	
B3	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0	30
B3	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0	30
B3	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0	30
B3	**5.12.Communication, Security and Control Systems**						
B4	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		203.43	30
B4	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		486.94	30
B4	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		583.54	30
B4	**5.12.Communication, Security and Control Systems**					**1273.91**	
B5	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m	0	0	30
B5	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m	0	0	30
B5	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m	0	0	30
B5	**5.12.Communication, Security and Control Systems**						
C2	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0.12	30
C2	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0.34	30
C2	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0.54	30
C2	**5.12.Communication, Security and Control Systems**					**0.99**	
C3	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0	30
C3	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0	30
C3	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0	30
C3	**5.12.Communication, Security and Control Systems**						
C4	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0.1	30
C4	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0.3	30
C4	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0.48	30
C4	**5.12.Communication, Security and Control Systems**					**0.88**	
TOTAL	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		408.89	30
TOTAL	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		978.75	30
TOTAL	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		1172.91	30
TOTAL	**5.12.Communication, Security and Control Systems**						
bioC	5.12.Communication, Security and Control Systems	Communication cable, 53.4g/m, Cable BUS,500m,B2cas1d1a1,vert (TGZ185) Cat	729.41	m		0	30
bioC	5.12.Communication, Security and Control Systems	Coaxial cable (TV / FM), Diam. 10 mm, Câble coaxial (TV / FM) (DONNEE ENVIR	917.5	m		0	30
bioC	5.12.Communication, Security and Control Systems	Communication cable, ethernet, Grade 2 TV R7800 Famille environnementale hor	3486.5	m		0	30
bioC	**5.12.Communication, Security and Control Systems**						
	5.12.Communication, Security and Control Systems				**342.33**	**2560.56**	
A1-A3	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit	27.47	52.04	30
A1-A3	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg	240.05	629.79	30
A1-A3	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2	4495	79980	20
A1-A3	**5.13.Special installations**				**4762.52**	**80661.83**	
A4	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0.25	30
A4	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		1.01	30
A4	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		41.69	20
A4	**5.13.Special installations**					**42.96**	
A5	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit	0	0	30
A5	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg	18	48.04	30
A5	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2	0	0	20
A5	**5.13.Special installations**				**18**	**48.04**	
B3	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0	30
B3	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		0	30
B3	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		0	20
B3	**5.13.Special installations**						
B4	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		53.45	30
B4	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		640.51	30
B4	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		160420.89	20
B4	**5.13.Special installations**					**161114.86**	
B5	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit	0	0	30
B5	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg	0	0	30
B5	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2	0	0	20
B5	**5.13.Special installations**						
C2	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		1.05	30
C2	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		9.19	30
C2	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		172.13	20
C2	**5.13.Special installations**					**182.37**	
C3	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0.094	30
C3	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		0.52	30
C3	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		15.46	20
C3	**5.13.Special installations**					**16.08**	
C4	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0.0071	30
C4	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		1.17	20
C4	**5.13.Special installations**					**1.18**	
D	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		-109.01	30
D	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		-1098.13	30

D	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		-26756.67	20	
D	**5.13.Special installations**							
TOTAL	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		106.9	30	
TOTAL	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		1329.06	30	
TOTAL	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		240631.34	20	
TOTAL	**5.13.Special installations**							
bioC	5.13.Special installations	Flush metal enclosure with door, 23.1 kg/unit, 401449 + 401459 Ref door : 401441	1.1892	unit		0	30	
bioC	5.13.Special installations	Steel sheet hot dip galvanized, 2-20 mm, 7840 kg/m3	240.047	kg		0	30	
bioC	5.13.Special installations	Photovoltaic monocrystalline panel, per m2, 14.5 kg/m2, 224 Wp (One Click LCA)	310	m2		0	20	
bioC	**5.13.Special installations**							
	5.13.Special installations				**4780.52**	**242067.31**		
A1-A3	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit	65.84	664.35	As building	
A1-A3	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m	855.48	1633.33	As building	
A1-A3	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m	1159.37	2651.52	As building	
A1-A3	**5.3.Disposal installations**				**2080.68**	**4949.21**		
A4	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0.61	As building	
A4	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		8.73	As building	
A4	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		11.83	As building	
A4	**5.3.Disposal installations**					**21.17**		
A5	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit	0	0	As building	
A5	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m	51.33	100.68	As building	
A5	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m	69.56	162.72	As building	
A5	**5.3.Disposal installations**				**120.89**	**263.4**		
B3	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0	As building	
B3	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		0	As building	
B3	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		0	As building	
B3	**5.3.Disposal installations**							
C2	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0.19	As building	
C2	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		32.76	As building	
C2	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		44.4	As building	
C2	**5.3.Disposal installations**					**77.35**		
C3	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0	As building	
C3	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		2.94	As building	
C3	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		3.99	As building	
C3	**5.3.Disposal installations**					**6.93**		
C4	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0.17	As building	
C4	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		0.22	As building	
C4	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		0.3	As building	
C4	**5.3.Disposal installations**					**0.7**		
D	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		-1799.27	As building	
D	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		-2438.42	As building	
D	**5.3.Disposal installations**							
TOTAL	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		665.33	As building	
TOTAL	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		1778.66	As building	
TOTAL	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		2874.76	As building	
TOTAL	**5.3.Disposal installations**							
bioC	5.3.Disposal installations	Interior floor drain, DN = 100 mm, 2.87 kg/unit, Siphon de sol intérieur DN évacuat	22.94	unit		0	As building	
bioC	5.3.Disposal installations	Polypropylene pipe for drainage network, 5.18 kg/m, PP Master 10 DN 200, PP Ma	165.15	m		0	As building	
bioC	5.3.Disposal installations	PVC pipes for water supply networks, Dia = 110 - 160 mm, Thickness = 2.4 - 3.5 m	357.83	m		0	As building	
bioC	**5.3.Disposal installations**							
	5.3.Disposal installations				**2201.57**	**5318.75**		
A1-A3	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit	25.19	197.88	As building	
A1-A3	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit	6.43	58.34	As building	
A1-A3	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit	9.63	92.37	As building	
A1-A3	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg	50.46	150.88	As building	
A1-A3	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m	756.94	3543.85	As building	
A1-A3	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m	1092.46	4556.12	As building	
A1-A3	**5.4.Water installations**				**1941.11**	**8599.43**		
A4	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0.23	As building	
A4	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0.06	As building	
A4	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.098	As building	
A4	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0.51	As building	
A4	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		7.02	As building	
A4	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		11.15	As building	
A4	**5.4.Water installations**					**19.07**		
A5	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit	0	0	As building	
A5	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit	0	0	As building	
A5	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit	0.58	5.57	As building	
A5	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg	3.03	9.21	As building	
A5	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m	0	0	As building	
A5	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m	65.55	276.79	As building	
A5	**5.4.Water installations**				**69.15**	**291.57**		
B3	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0	As building	
B3	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0	As building	
B3	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0	As building	
B3	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0	As building	
B3	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		0	As building	
B3	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		0	As building	
B3	**5.4.Water installations**							
C2	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0.074	As building	
C2	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0.019	As building	
C2	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.37	As building	
C2	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		1.93	As building	
C2	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		2.21	As building	
C2	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		41.83	As building	
C2	**5.4.Water installations**					**46.44**		
C3	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0	As building	
C3	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0	As building	
C3	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.033	As building	
C3	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0.17	As building	
C3	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		0	As building	
C3	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		3.76	As building	
C3	**5.4.Water installations**					**3.96**		
C4	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0.065	As building	
C4	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0.017	As building	
C4	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0.0025	As building	
C4	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0.013	As building	
C4	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		1.97	As building	
C4	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		0.28	As building	
C4	**5.4.Water installations**					**2.35**		
D	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		-20.26	As building	
D	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		-106.13	As building	
D	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		-2297.7	As building	
D	**5.4.Water installations**							
TOTAL	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		198.25	As building	
TOTAL	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		58.43	As building	
TOTAL	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		98.44	As building	
TOTAL	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		162.72	As building	
TOTAL	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		3555.05	As building	
TOTAL	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		4889.93	As building	
TOTAL	**5.4.Water installations**							
bioC	5.4.Water installations	Thermostatic water mixer, for collective use, 2.7kg, Mitigeur thermostatique collect	9.18	unit		0	As building	
bioC	5.4.Water installations	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	9.18	unit		0	As building	
bioC	5.4.Water installations	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	32.113	unit		0	As building	
bioC	5.4.Water installations	PEX pipes for tap water and heating systems, Diameter: 12-50 mm, Combi Pipe (U	50.46	kg		0	As building	
bioC	5.4.Water installations	Polypropylene water supply plumbing, French average, DN=110mm, Réseau d'ad	344.063	m		0	As building	
bioC	5.4.Water installations	Polyethylene gas supply plumbing, Diam. Ext. = 60mm, ép. paroi = 10mm, Réseau	674.36	m		0	As building	

bioC	**5.4.Water installations**						
	5.4.Water installations				**2010.27**	**8962.83**	
A1-A3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	45	198.43	45
A1-A3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	45	198.43	45
A1-A3	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg	120	403.78	As building
A1-A3	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg	8588.55	18021.47	35
A1-A3	**5.5.Heat source**				**8798.55**	**18822.1**	
A4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.42	45
A4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.42	45
A4	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0.51	As building
A4	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		79.66	35
A4	**5.5.Heat source**					**81**	
A5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0.45	2.01	45
A5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0.45	2.01	45
A5	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg	3	10.23	As building
A5	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg	0	0	35
A5	**5.5.Heat source**				**3.9**	**14.24**	
B3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
B3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
B3	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0	As building
B3	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		0	35
B3	**5.5.Heat source**						
B4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		200.73	45
B4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		200.73	45
B4	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		18148.6	35
B4	**5.5.Heat source**					**18550.06**	
B5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0	0	45
B5	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit	0	0	45
B5	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg	0	0	35
B5	**5.5.Heat source**						
C2	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		1.72	45
C2	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		1.72	45
C2	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		4.6	As building
C2	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		25.13	35
C2	**5.5.Heat source**					**33.17**	
C3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.15	45
C3	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.15	45
C3	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0.25	As building
C3	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		0	35
C3	**5.5.Heat source**					**0.56**	
C4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.012	45
C4	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0.012	45
C4	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		22.33	35
C4	**5.5.Heat source**					**22.35**	
D	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		-179.47	45
D	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		-179.47	45
D	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		-618.62	As building
D	**5.5.Heat source**						
TOTAL	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		403.48	45
TOTAL	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		403.48	45
TOTAL	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		419.36	As building
TOTAL	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		36297.19	35
TOTAL	**5.5.Heat source**						
bioC	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
bioC	5.5.Heat source	Circulating pump, 250-1000W/unit	1.5	unit		0	45
bioC	5.5.Heat source	Stainless steel sheet, 7900.0 kg/m^3	120	kg		0	As building
bioC	5.5.Heat source	Sewer pipe PE-HD	8588.55	kg		0	35
bioC	**5.5.Heat source**						
	5.5.Heat source				**8802.45**	**37523.5**	
A1-A3	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit	1255.55	10176.32	25
A1-A3	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit	660.96	4773.6	30
A1-A3	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit	1317.33	2106.77	30
A1-A3	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit	22.48	204.08	30
A1-A3	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit	14.68	113.54	30
A1-A3	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit	247.74	1170.67	30
A1-A3	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit	7.93	642.16	30
A1-A3	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit	24.77	237.53	30
A1-A3	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit	53.79	796.97	30
A1-A3	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m	545.92	5523.44	30
A1-A3	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m	513.16	3732.03	60
A1-A3	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m	29.59	72.13	30
A1-A3	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg	1564.34	3848.28	30
A1-A3	**5.6.Space heating and Airconditioning**				**6258.25**	**33397.5**	
A4	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		11.65	25
A4	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		6.13	30
A4	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		12.22	30
A4	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0.21	30
A4	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0.14	30
A4	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		2.3	30
A4	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.074	30
A4	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.25	30
A4	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0.5	30
A4	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		5.06	30
A4	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		4.76	60
A4	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0.091	30
A4	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		15.96	30
A4	**5.6.Space heating and Airconditioning**					**59.34**	
A5	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit	12.56	102.41	25
A5	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit	6.61	48.07	30
A5	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit	13.17	21.74	30
A5	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit	0	0	30
A5	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit	0	0	30
A5	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit	0	0	30
A5	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit	0.079	6.43	30
A5	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit	1.49	14.33	30
A5	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit	0.54	8	30
A5	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m	0	0	30
A5	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m	5.13	37.58	60
A5	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m	2.22	10.01	30
A5	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg	93.86	235.8	30
A5	**5.6.Space heating and Airconditioning**				**135.65**	**484.36**	
B3	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		0	25
B3	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		0	30
B3	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		0	30
B3	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0	30
B3	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0	30
B3	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0	30
B3	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0	30
B3	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0	30
B3	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0	30
B3	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		0	30
B3	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		0	60
B3	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0	30
B3	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		0	30
B3	**5.6.Space heating and Airconditioning**						
B4	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		20481.37	25
B4	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		4807.49	30

B4	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		2174.3	30
B4	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		204.41	30
B4	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		113.76	30
B4	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		1183.37	30
B4	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		642.57	30
B4	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		238.82	30
B4	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		799.73	30
B4	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		5531.52	30
B4	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		133.44	30
B4	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		3929.93	30
B4	**5.6.Space heating and Airconditioning**					**40240.71**	
B5	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit	0	0	25
B5	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit	0	0	30
B5	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit	0	0	30
B5	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m	0	0	30
B5	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m	0	0	30
B5	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg	0	0	30
B5	**5.6.Space heating and Airconditioning**						
C2	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		48.08	25
C2	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		25.31	30
C2	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		50.44	30
C2	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0.066	30
C2	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0.043	30
C2	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		9.49	30
C2	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.3	30
C2	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.95	30
C2	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		2.06	30
C2	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		1.6	30
C2	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		19.65	60
C2	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0.11	30
C2	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		59.9	30
C2	**5.6.Space heating and Airconditioning**					**218**	
C3	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		4.32	25
C3	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		2.27	30
C3	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		4.53	30
C3	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0	30
C3	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0	30
C3	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0.85	30
C3	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.027	30
C3	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.085	30
C3	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0.18	30
C3	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		0	30
C3	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		1.76	60
C3	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		61.11	30
C3	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		5.38	30
C3	**5.6.Space heating and Airconditioning**					**80.53**	
C4	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		0.33	25
C4	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		0.17	30
C4	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		0.34	30
C4	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0.058	30
C4	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0.038	30
C4	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0.064	30
C4	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0.0021	30
C4	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0.0064	30
C4	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0.014	30
C4	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		1.42	30
C4	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		0.13	60
C4	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		0.41	30
C4	**5.6.Space heating and Airconditioning**					**2.98**	
D	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		-7498.63	25
D	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		-2636.04	30
D	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		-5253.78	30
D	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		-983.12	30
D	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		-31.63	30
D	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		-101.26	30
D	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		-214.52	30
D	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		-1028.39	60
D	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		-79.3	30
D	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		-6363.73	30
D	**5.6.Space heating and Airconditioning**						
TOTAL	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		30824.47	25
TOTAL	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		9663.05	30
TOTAL	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		4370.35	30
TOTAL	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		408.82	30
TOTAL	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		227.51	30
TOTAL	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		2366.73	30
TOTAL	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		1291.56	30
TOTAL	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		491.97	30
TOTAL	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		1607.45	30
TOTAL	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		11063.03	30
TOTAL	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		3795.92	60
TOTAL	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		276.9	30
TOTAL	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		8095.65	30
TOTAL	**5.6.Space heating and Airconditioning**						
bioC	5.6.Space heating and Airconditioning	Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5	1	unit		0	25
bioC	5.6.Space heating and Airconditioning	Floor gas boiler, P=25kW, Chaudière gaz au sol (DONNEE ENVIRONNEMENTAL	4.59	unit		0	30
bioC	5.6.Space heating and Airconditioning	Electric heat pump (air-water), 10 kW	4.59	unit		0	30
bioC	5.6.Space heating and Airconditioning	4-port water brass manifolds, 0.7 kg/unit, Collecteur (=nourrice=répartiteur=clarine	32.113	unit		0	30
bioC	5.6.Space heating and Airconditioning	Thermostatic radiator valve (MDEGD)	36.7	unit		0	30
bioC	5.6.Space heating and Airconditioning	Steel box for home heating manifold, 6kg, Coffret en acier pour collecteur (ou nour	41.29	unit		0	30
bioC	5.6.Space heating and Airconditioning	Programmable thermostat, 0.1921 kg/unit, 6053005_TYBOX 1117 Autres référenc	41.29	unit		0	30
bioC	5.6.Space heating and Airconditioning	Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en lait	82.58	unit		0	30
bioC	5.6.Space heating and Airconditioning	Output module, 0.469 kg/unit, TYA608C TYA608D; TYA608B; TYA608A; TXA608	114.69	unit		0	30
bioC	5.6.Space heating and Airconditioning	Copper pipe drainage and sewage network, 1.7 kg/m, Réseau d´évacuation et d´a	321.13	m		0	30
bioC	5.6.Space heating and Airconditioning	Ventilation ducting, per m linear, D: 63 mm (2.48 in)	603.72	m		0	60
bioC	5.6.Space heating and Airconditioning	Single-sided adhesive tape with reinforcement grid and protective film, 0.0258 kg/r	1146.88	m		0	30
bioC	5.6.Space heating and Airconditioning	PEX pipes for underfloor heating systems, Klett Pipe (Uponor Corporation)	1564.34	kg		0	30
bioC	**5.6.Space heating and Airconditioning**						
	5.7.Ventilation systems				**6393.9**	**74483.43**	
A1-A3	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg	39.96	308.12	As building
A1-A3	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg	51.59	322.82	As building
A1-A3	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg	259.21	1163.35	As building
A1-A3	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg	453.4	1958.62	As building
A1-A3	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg	536.29	2555.12	As building
A1-A3	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg	638.45	7013.12	As building
A1-A3	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg	1001.08	5063.63	As building
A1-A3	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m	2371.4	5033.57	30
A1-A3	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m	252.79	923.93	30
A1-A3	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m	286.78	384.46	30
A1-A3	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m	1045.23	3606.44	30
A1-A3	**5.8.Electrical installations**				**6936.17**	**28333.17**	

A4	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0.37	As building
A4	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0.48	As building
A4	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			2.4	As building
A4	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			4.21	As building
A4	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			4.97	As building
A4	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			5.92	As building
A4	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			9.29	As building
A4	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			22	30
A4	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			2.34	30
A4	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			2.93	30
A4	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			9.7	30
A4	**5.8.Electrical installations**						**64.6**	
A5	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg	0.4		3.1	As building
A5	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg	0.52		3.25	As building
A5	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg	2.59		11.77	As building
A5	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg	4.53		19.65	As building
A5	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg	5.36		25.83	As building
A5	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg	6.38		70.46	As building
A5	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg	0		0	As building
A5	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m	23.71		50.69	30
A5	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m	2.53		9.37	30
A5	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m	17.21		23.97	30
A5	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m	10.45		36.6	30
A5	**5.8.Electrical installations**				**73.69**		**254.68**	
B3	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0	As building
B3	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0	As building
B3	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0	As building
B3	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			0	As building
B3	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			0	As building
B3	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			0	As building
B3	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			0	As building
B3	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			0	30
B3	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0	30
B3	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0	30
B3	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			0	30
B3	**5.8.Electrical installations**							
B4	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			5068.67	30
B4	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			936.89	30
B4	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			399.42	30
B4	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			3660.03	30
B4	**5.8.Electrical installations**						**10065.01**	
B5	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m	0		0	30
B5	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m	0		0	30
B5	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m	0		0	30
B5	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m	0		0	30
B5	**5.8.Electrical installations**							
C2	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			1.53	As building
C2	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			1.98	As building
C2	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			9.93	As building
C2	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			1.33	As building
C2	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			20.54	As building
C2	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			24.45	As building
C2	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			2.93	As building
C2	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			6.94	30
C2	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			9.68	30
C2	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			10.98	30
C2	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			40.02	30
C2	**5.8.Electrical installations**						**130.3**	
C3	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0.14	As building
C3	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0.18	As building
C3	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0.89	As building
C3	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			0	As building
C3	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			1.84	As building
C3	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			2.2	As building
C3	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			0	As building
C3	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			0	30
C3	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0.87	30
C3	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0.99	30
C3	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			3.59	30
C3	**5.8.Electrical installations**						**10.7**	
C4	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0.01	As building
C4	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0.013	As building
C4	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0.067	As building
C4	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			1.18	As building
C4	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			0.14	As building
C4	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			0.17	As building
C4	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			2.6	As building
C4	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			6.17	30
C4	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0.066	30
C4	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0.075	30
C4	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			0.27	30
C4	**5.8.Electrical installations**						**10.76**	
D	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			-80.08	As building
D	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			-103.38	As building
D	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			-519.46	As building
D	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			-1074.75	As building
D	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			-1279.46	As building
D	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			-1008.18	30
D	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			-1172.2	30
D	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			-4168.59	30
D	**5.8.Electrical installations**							
TOTAL	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			313.27	As building
TOTAL	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			328.72	As building
TOTAL	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			1188.4	As building
TOTAL	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			1984.99	As building
TOTAL	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			2608.44	As building
TOTAL	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			7116.31	As building
TOTAL	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			5078.45	As building
TOTAL	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			10188.03	30
TOTAL	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			1883.14	30
TOTAL	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			822.81	30
TOTAL	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			7356.65	30
TOTAL	**5.8.Electrical installations**							
bioC	5.8.Electrical installations	Insulated switchgear, 422.165 kg/unit, SM6-36 IM (SCHNEIDER ELECTRIC INDU	39.96	kg			0	As building
bioC	5.8.Electrical installations	Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	51.586	kg			0	As building
bioC	5.8.Electrical installations	Cable 1-wire, 0.02 kg/m	259.209	kg			0	As building
bioC	5.8.Electrical installations	Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRO	453.398	kg			0	As building
bioC	5.8.Electrical installations	Energy Efficient EX Transformers (Copper), EX75T3H, DOE 2016 (SCHNEIDER	536.294	kg			0	As building
bioC	5.8.Electrical installations	Battery Lithium ion, French average, capacité=200Ah, Batterie Lithium ion (DONN	638.445	kg			0	As building
bioC	5.8.Electrical installations	Fluorescent lamp, T8-18W, 0.07 kg/unit	1001.08	kg			0	As building
bioC	5.8.Electrical installations	Power cable, ≥16mm², 1.73 kg/m, ALSECURE® Monoconductor (S≥16mm²) (Nexa	1367.075	m			0	30
bioC	5.8.Electrical installations	Cable 5-wire, 0.168 kg/m	1504.7	m			0	30
bioC	5.8.Electrical installations	Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Roh	2078.14	m			0	30
bioC	5.8.Electrical installations	Cable 3-wire, 0.121 kg/m	8638.26	m			0	30
bioC	**5.8.Electrical installations**							
	5.8.Electrical installations				**7009.86**		**38869.22**	
B6a	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	5543	kWh			45230.88	

B6b	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	15900	kWh		129744	
B7	5.Services	Tap water, clean - Thames Water Utilities Ltd	350	m3		411.6	
B7	5.Services	Wastewater - Thames Water Utilities Ltd	350	m3		2349.9	
B7	**5.Services**					**2761.5**	
TOTAL	5.Services	Tap water, clean - Thames Water Utilities Ltd	350	m3		411.6	
TOTAL	5.Services	Wastewater - Thames Water Utilities Ltd	350	m3		2349.9	
TOTAL	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	5543	kWh		45230.88	
TOTAL	5.Services	Electricity, United Kingdom, SAP 10.1 and 10.2	15900	kWh		129744	
TOTAL	**5.Services**						
	5.Services					**177736.38**	
A5	Other site construction or overall construction stage	Average construction site impacts, scenario for temperate and southern climate, E	1835	m2		25524.85	
TOTAL	Other site construction or overall construction stage	Average construction site impacts, scenario for temperate and southern climate, E	1835	m2		25524.85	
	Other site construction or overall construction stage					**25524.85**	