

Whole Life Carbon Report Lanwades Woodland Park

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Revision History

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About Environmental Economics

Our team of experienced consultants specialise in construction and building energy. We have qualifications in sustainability, energy, engineering, building physics and construction as well as environmental, quality management and auditing.

We develop flexible, practical, cost-effective specifications for our clients through identifying solutions and delivering design advice. This includes the following disciplines:

- Energy Reports
- Sustainability Statements
- Compliance assessments and advice covering
 - Part L (SAP) & Future Homes Standard
 - Part F (ventilation)
 - Part G (water)
 - Part O (overheating)
- Overheating TM59 dynamic modelling
- Overheating simple method
- Life cycle carbon assessments
- Net zero carbon assessments
- BREEAM
- SBEM (existing and new build)
- Minimum Energy Efficiency Standards (MEES)
- Thermal Bridging (Psi value calculations)

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1. Executive Summary

- 1.1.1. Environmental Economics Ltd has been commissioned by Lochailort Kentford Ltd to prepare a Whole Life Carbon (WLC) Report for the residential site Lanwades Woodland Park.
- 1.1.2. This assessment has been carried out in accordance with the latest published RICS Whole Life Carbon Assessment for the Built Environment Guidance (2nd Edition, July 2024). Whole Life Carbon calculations within this report align with the latest RICS methodology and guidance.
- 1.1.3. The assessed residential build specification shows an embodied carbon benchmark rating of B, showing that the current assumed build specification is of a high standard, as shown in Figure 1 below:

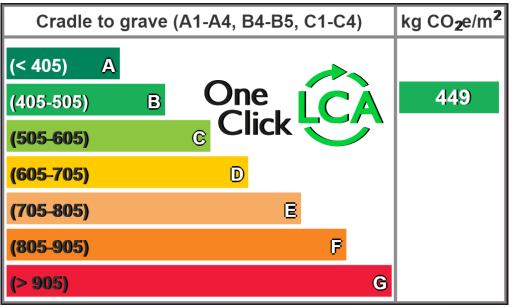


Figure 1 - Embodied Carbon benchmark

- 1.1.4. More detail on embodied carbon benchmarks can be found in section 4.4 below.
- 1.1.5. Results show that operational carbon is expected to be the highest source of emissions, making up 58.9% of total emissions, whilst cradle to grave embodied carbon emissions are responsible for 41.1% of emissions. This is based on an assumed build specification at present and can be reduced through targeted product specification as the detail of build specification is progressed.
- 1.1.6. The build specification of this development sets a high standard for WLC and is seen as an improvement on industry standard specifications.

2. Project Overview

2.1. Description of Site

- 2.1.1. The site proposal consists of the construction of approximately 1000 residential dwellings, along with several non-domestic buildings including retail units, a care home, a school and office buildings.
- 2.1.2. The proposed site plan is shown in Appendix A.

2.2. Brief

- 2.2.1. Lochailort Kentford Ltd have commissioned a Whole Life Carbon Assessment for the site Lanwades Woodland Park to show how the embodied carbon associated with the development performs against industry standard benchmarks. Recommendations are included to show how the development can improve upon the embodied carbon emissions shown within this report.
- 2.2.2. This report seeks to address both operational and embodied carbon for the development and show how the scheme improves upon national standards.
- 2.2.3. Further details on the operational carbon can be found in the associated Energy and Sustainability Report for this development.
- 2.2.4. A sample house type has been assessed using the current residential build specification to show the WLC performance of the development.
- 2.2.5. Assessments in this report are based on the residential build specification, owing to the higher proportion of the development site which is to be residential in nature. Due to the sizing and nature of the non-residential aspects of this development, it is considered that the build specification is likely to be very similar to the residential build specification. It can therefore be assumed that the embodied carbon results per square meter will be highly consistent across the development as a whole.
- 2.2.6. Further assessments can be commissioned at a later date should the non-residential build specification diversify in any considerable amount when compared to the residential build specification.

3. Operational Carbon

3.1. Assessment Methodology

- 3.1.1. It is expected that the proposed dwellings for this development will fall under the Future Homes Standard Building Regulations. Currently, there is no modelling software available to test whether the sample house types will pass the future regulations. Therefore, SAP 10 methodology was used. The software provides several outputs, and based on the provided specification for this proposed development, we are able to assess the following areas for our calculations:
 - Building regulations compliance, including:
 - Carbon emissions (kg CO2/m2/year)
 - Primary Energy Demand (kWh/m2/annum)
 - Fabric Energy Efficiency (kWh/m2/annum)
 - Energy usage per year (kWh/annum)
 - Energy costs per year (£/annum)
 - More detailed breakdowns by end use (space heating, water heating, cooking, lighting, appliances)
- 3.1.2. Each of these outputs can be used in different ways to analyse the performance of the dwelling. The total regulated carbon emissions for each property is based upon:
 - Space heating;
 - Water heating;
 - Electricity for pumps and fans;
 - Electricity for lighting.
- 3.1.3. Part L 2021 requires all newbuild properties to be designed to operate space heating at lower temperatures to ensure suitability for heat pumps (AD-L, section 5.10). It is therefore a natural decision to adopt heat pumps to deliver space heating and hot water on this development.
- 3.1.4. SAP software is issued by independent software suppliers, and checked and approved on behalf of government by the Building Research Establishment (BRE).
- 3.1.5. Non-domestic units will be assessed using an approved SBEM software tool during detailed design.

3.2. Operational Energy Results

- 3.2.1. The combination of improved fabric specification and implementation of ASHP and dMEV for this particular development result in lower carbon missions than is required by national and local policy requirements.
- 3.2.2. Representative data from sample SAPs completed for the Energy and Sustainability Report for this development are used to show operational carbon emissions within the WLC assessment in this report.
- 3.2.3. Results show that whilst the operational emission rates are improved beyond the required levels, operational energy still makes up 58.9% of total carbon emissions of the representative house type.
- 3.2.4. Full details of the approach to operational energy and emissions can be found in the Energy and Sustainability Report for this development.

4. Embodied Carbon

4.1. Context

- 4.1.1. As building regulation requirements and decarbonisation of grid electricity make buildings more energy efficient, operational carbon emissions will make up a decreasing proportion of a development's emissions over time.
- 4.1.2. Whole Life Carbon (WLC) assessments are therefore becoming increasingly important to value engineer a development and reduce the carbon emissions associated with other aspects of a development, such as embodied carbon (emissions generated in producing materials).
- 4.1.3. Whilst not yet a requirement under Building Regulations or the West Suffolk Council Joint Development Management Policies Document (2015), WLC assessments are increasingly a requirement of local planning policy, most notably within the Greater London Authority (GLA) through its inclusion in the London Plan.
- 4.1.4. By assessing the WLC of the build specification for this development, Lochailort Kentford Ltd are pre-empting the wider adoption of WLC requirements and ensuring that they are meeting or exceeding the current WLC benchmarks.
- 4.1.5. The WLC assessments carried out will also allow for the value engineering of the build specification as the development progresses through detailed design stage. This will allow for the selection of materials with lower embodied carbon impacts whilst maintaining the high standards of fabric efficiency to contribute toward reduced operational carbon emissions.
- 4.1.6. Examples of this would be the assessment of insulation materials to allow for the selection of a high performing insulation product with lower embodied carbon emissions than the baseline material used at this stage.

4.2. Assessment Methodology

- 4.2.1. Environmental Economics have modelled a sample residential dwelling in a baseline masonry specification using One Click LCA software.
- 4.2.2. One Click LCA utilises a library of EPDs including product specific, manufacturer specific and generic Environmental Product Declarations (EPDs) in accordance with RICS guidance. Owing to the early stage of design at which this assessment was carried out, limited detail was available in relation to specific products which are to be utilised during construction. The closest applicable generic EPDs have therefore been used within the assessment to give an accurate representation of the build specification.
- 4.2.3. Further analysis of WLC using a more refined specification will be possible once products have been specified, allowing for a more accurate representation of embodied carbon emissions from the development.
- 4.2.4. One Click LCA assessments are aligned with the Royal Institute of Chartered Surveyors (RICS) Conventions and reports on RIBA life cycle stages A-C, as shown in Table 1 below:

	Product Stage		Consti Pro Sta			Us	se Sta	ge			End of Life Stage				
Raw material supply	Transport	Manufacturing	Transport to building site	Installation into building	Use / application	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction / demolition	Transport	Waste processing	Disposal
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4

Table 1 – RIBA life cycle stages for Whole Life Carbon analysis

- 4.2.5. Operational Carbon is considered within the WLC assessment, however greater detail can be found though SAP. More detail on operational carbon can be found in the Energy and Sustainability Report for this development.
- 4.2.6. The assessment is based on an assumed 60 year life-cycle for a building, in accordance with RICS PS 2023 guidance.

4.3. Whole Life Carbon Build Specification

- 4.3.1. The build specification utilised for the WLC assessment on Lanwades Woodland Park follows generic EPDs from the One Click LCA EPD library.
- 4.3.2. Assumptions have been made to allow for a complete assessment based on limited currently specified materials. These assumptions include a generic masonry wall build up following the dimensions of the house type assessed and generic roof construction. These are based on industry standards and can therefore be assumed to be accurate prior to specific materials being specified.
- 4.3.3. In depth bill of quantities are not currently available, so measurements and volumes of individual materials are based on the available drawings.
- 4.3.4. Table 2 below gives a breakdown of the overarching build constructions per build element:

Element	Construction
Foundations	Concrete strip foundations with pre cast concrete trench blocks
Ground Floor	Concrete beam and EPC block flooring system with EPS insulation and screed overlay, laminate flooring finish
External Walls	Brick and mortar finish, Rockwool insulated cavity, Aircrete and mortar inner leaf, plasterboard on dabs, painted plaster finish
External Roof	Waterproof roofing system external finish with 500mm mineral wool insulation across joists
Intermediate Floor	Wooden I-joists, chipboard and carpet upper finish, plasterboard finished with plaster and paint ceiling finish
Internal Walls	Timber stud walls, plasterboard finished with plaster and paint
Windows	uPVC double glazed
External Doors	Wooden external door
Internal Doors	Wooden internal doors
Staircase	Quarter turn wood staircase

Table 2 – Construction Specifications per Build Element

4.3.5. These constructions are based on industry standards and the most up to date information on build specification. Results can be updated for accuracy as build specification is progressed.

4.4. Whole Life Carbon Results

- 4.4.1. A sample residential dwelling has been assessed using the above methodology with the above build specification for the Lanwades Woodland Park development.
- 4.4.2. Figures 2 and 3 below shows the carbon emissions of the sample build specification per life-cycle stage:

Global warming potential - Non-Decarbonised scenario kg CO2e - Life-cycle stages

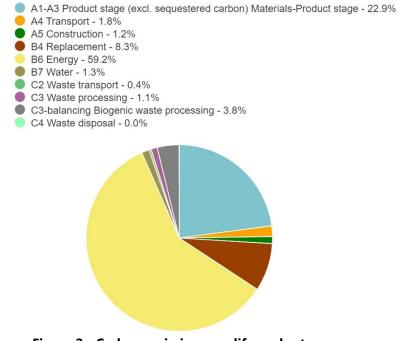


Figure 2 - Carbon emissions per life-cycle stage

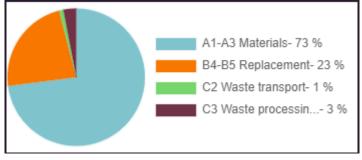
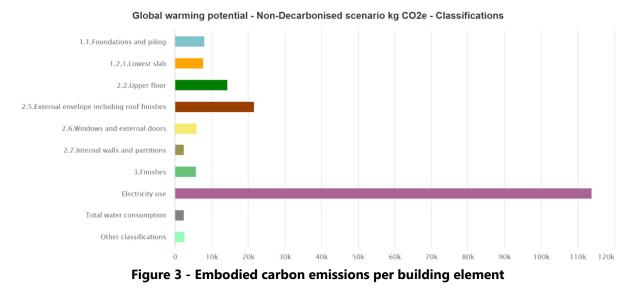


Figure 2 - Embodied carbon per life-cycle stage

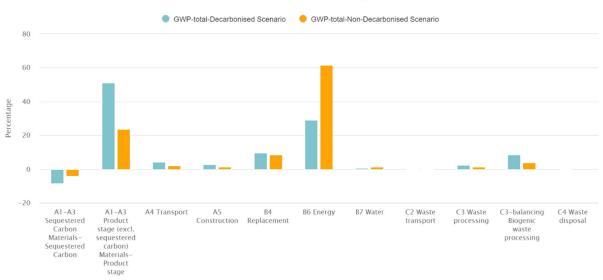
- 4.4.3. Figure 2 shows that the largest contributing factors to the overall emissions associated with this assessment are operational energy, which is assessed in detail in the Energy and Sustainability Report for this development.
- 4.4.4. Figure 3 shows embodied carbon emissions with operational emissions removed, which shows that RIBA stages A1-A3 are the most contributing factors in relation to embodied carbon.

- 4.4.5. This shows that the greatest savings in emissions can be made through improvements to the operational energy usage and the material specification used for the development. As the build specification evolves, materials can be selected which improve both the operational energy efficiency (in order to reduce B6) and the material embodied carbon (A1-A3).
- 4.4.6. For the purposes of this report, material embodied carbon (A1-A3) is the focus.
- 4.4.7. Figure 4 below shows which building elements have the greatest impact on embodied carbon emissions:



- 4.4.8. With the current build specification, it can be seen that the largest contributing material element (excluding operational use) is associated with the external envelope including rood finishes. It can therefore be seen that improvements can be made through the specification of lower impact materials utilised in these building elements.
- 4.4.9. The highest contributing materials to the WLC emissions are:
 - Lightweight concrete blocks;
 - Stone wool insulation;
 - Ready mix concrete;
 - Red brick;
 - Screed.
- 4.4.10. The present build specification utilised for this assessment utilises generic EPD data for the above building materials. As the build specification is progressed, it is recommended that higher performing materials are utilised for these elements. Recommendations can be found in section 4.5.

4.4.12. Figure 5 below shows how embodied carbon will differ based on both a decarbonised (based on grid decarbonisation assumptions over the life-cycle of the assessment) and non-decarbonised scenario (business as usual):



Results by life-cycle stage

Figure 4 - Decarbonised scenario (blue) vs. non-decarbonised scenario (orange)

- 4.4.13. Figure 5 shows that as grid electricity is predicted to continue decarbonising, the operational emissions associated with a building become a smaller proportion of overall emissions.
- 4.4.14. The predicted continuing decarbonisation of the grid greatly increases the benefits which can be gained from value engineering a build specification to reduce material embodied carbon.
- 4.4.15. Recommendation on how the development at Lanwades Woodland Park can reduce embodied carbon emissions can be found in section 4.5.
- 4.4.16. A more detailed breakdown of WLC results from the One Click LCA software can be found in Appendix B, whilst a full breakdown of all data used in the assessment can be found in Appendix C.
- 4.4.17. To show how the residential build specification for Lanwades Woodland Park compares to industry standard build specifications for the same or similar building types. One Click LCA software has been used to produce an embodied carbon benchmark rating, as show in Figure 1 on the next page:

Cradle	to grave (A1-A4, B4-B5,	C1-C4)	kg CO ₂ e/m ²
(< 405)	А			
(405-505)	В	One	C A	449
(505-605)		_C Click		
<mark>(605-705)</mark>		D		
(705-805)		E		
(805-905)			F	
(> 905)			G	

Figure 5 - Embodied Carbon benchmark

- 4.4.18. The embodied carbon benchmark is calculated by comparing the assessed build specification to available data of the same or similar building types to produce a comparative ranking of how much embodied carbon is associated with the assessed specification.
- 4.4.19. The residential build specification that has been assessed for this development achieves an embodied carbon emission rating of 449 kgCO₂e/m². This level of embodied carbon emissions compares positively against the available data against which it has been compared, and is ranked as a B.
- 4.4.20. This comparatively low embodied carbon rating shows that the assessed build specification for this development can be considered a positive sustainable specification for residential dwellings.

4.5. Recommendations

- 4.5.1. As discussed in section 4.4, the highest contributing building elements are:
 - Lightweight concrete blocks;
 - Stone wool insulation;
 - Ready mix concrete;
 - Red brick;
 - Screed.
- 4.5.2. As generic EPDs have been utilised for these elements, there are several products within the One Click LCA EPD library which have a lower embodied carbon than those utilised in the assessment.
- 4.5.3. Product specific EPDs are available for several building materials including concrete blocks, ready mix concrete, red brick, screed and mortar which have lower embodied carbon associated with them. Specifying these products at detailed design stage will allow for a significant reduction in overall embodied carbon and improved WLC performance.
- 4.5.4. Several insulation products are available which perform better than stone wool insulation. Examples of this include PIR board, which performs over twice as well as the specified insulation for embodied carbon, and blown bead insulation which improves greatly upon stone wool.
- 4.5.5. A timber frame construction specification can also be considered. Timber frame construction would have a large improvement when compared to the concrete block construction associated with masonry dwellings. It is recommended that this is considered at detailed design stage.
- 4.5.6. These potential improvements to the build specification will be considered during detailed design stage and a finalised build specification will be agreed upon which reduces embodied carbon whilst maintaining low operational emissions.
- 4.5.7. It is recommended that a finalised build specification is assessed using One Click LCA to ensure a reduced embodied carbon impact to improve overall life-cycle performance of the development.

5. Conclusion

- 5.1.1. This Life Cycle Carbon Report has been produced for the proposed development at Lanwades Woodland Park.
- 5.1.2. Assessments were performed using the current available data and assumptions for the residential build specification at this development.
- 5.1.3. Results show that the development performs well in comparison to nationally available data for embodied carbon for the same of similar building types, with an embodied carbon benchmark rating of B.
- 5.1.4. It can be seen from the assessments used for this report that the most contributing building materials for embodied carbon are:
 - Lightweight concrete blocks;
 - Stone wool insulation;
 - Ready mix concrete;
 - Red brick;
 - Screed.
- 5.1.5. As build specification is developed through detailed design stage, it is recommended that embodied carbon of individual building materials and elements is considered in a holistic way in order to further reduce Whole Life Carbon costs. It is further recommended that the materials highlighted in section 5.1.3 above are focused on for value engineering the specification.
- 5.1.6. The site is found to present a positive sustainable development based on the assessed criteria.

March 25

Appendix A – Proposed Site Layout



Appendix B – Breakdown of Results

Entity users	Project name	Design name	Indicator name
Rob Holbrook	Lanwades 4 bed detached	2 - Baseline	Whole life carbon assessment, RICS - 2nd Edition
Section	Result category	Global warming potential - Decarbonised scenario kg CO2e	Global warming potential - Non-Decarbonised scenario kg CO2e
A0	Pre-construction		
A1-A3 Sequestered Carbon	Construction Materials-Sequestered Carbon	-7361.95	-7361.95
A1-A3 Product stage (excl. sequestered carbon)	Construction Materials-Product stage	44143.48	3 44143.48
A4	Transportation to site	3562.0	5 3562.05
A4-leg1	Transportation to site - leg 1	3559.04	3 3559.08
A4-leg2	Transportation to site - leg 2	2.97	2.97
A5	Construction/installation process	2288.12	2 2288.12
A5-1	Pre-construction demolition		
A5-2	Site operations		
A5-3	Site waste	2288.12	2 2288.12
A5-4	Transportation of workers to the site		
B1	Use phase		
B1-1	Carbonation		
B1-2	Refrigerant emissions		
B2	Maintenance		
B3	Repair	() 0
B3a	Repair - materials	() 0
B3b	Repair - transport	() 0
B3b-leg2	Repair - transport leg 2	() 0
B3c	Repair - waste	() 0
B3d	Repair scenario		
B4	Material replacement and refurbishment	8175.18	3 15998.07
B4a	Material replacement - materials	4682.3	5 9032.66
B4b	Material replacement - transport	695.12	2 1390.24
B4b-leg2	Material replacement - transportleg 2	2.44	4.88
B4c	Material replacement-Eol	2436.50	3 4872.77
B4d	Material replacement -site waste	358.69	697.52
B6	Energy consumption	25104.0	5 113944.46
B6-building	Energy impact-Building	25104.0	5 113944.46
B6-External works	Energy impact-External works	(0
B7	Water use	510.70	2553.8
B7-Essential	Water use-Essential Building	510.76	3 2553.8
B7-Other	Water use-Other Building		
B7-Non-building	Water use- Non-building		
C1-C4	End of life	9781.76	5 10119.61
C1	Deconstruction/demolition		
C2	Waste transport	337.88	675.73
C3	Waste processing	9390.47	7 9390.47
C4	Waste disposal	53.41	53.41
D	External impacts (not included in totals)	-3159.57	
D	Installed Materials - benefit	-2609.1	-5217.68
A5-benefit	Construction site - material wastage - benefit	-95.66	
A5m-benefit	Construction site - material use - benefit		
B3-benefit	Repair - benefit	0) 0
B4-B5-benefit	Material replacement - benefit	-454.8	-909.56
D-reused	Benefit - reused as material		

Appendix C – Full Table of Data

Table of data starts on next page.

Entity users Rob Holbrook	Project name	2 - Baseine assessment, RICS													
Rob Holbrook	anwades 4 bed detached	2 - Baseline assessment, RICS 2nd Edition													
Section	Resource	User input Unit	Global warming potential - Decarbonised scenario kg	Global warming potential - Non- Decarbonised scenario kg Cge	Thickness m	Comment	Duilding element	integrated system type	Energy Usage	Construction	Resource type	Datasource	Name	Transformation process	s celMasterforma
A1-A3 Product stage (eecl.	fortar, 1:4 camerit sand mix (IStruct&)	2.21m3	00.e 792.5	792.51 Foundation, sub-surface, basement and retaining wa		Trench block mortar	1.1.Foundations and piling				Mortar (masonry/bricklaying)	The Structural Carbon Tool, v2.0	Notar		P2 4
A1-A3 Product stage (eecl.	Precast concrete block, medium density solid, average stren	ga 6.96m2	845.43			Trench blocks	1.1.Foundations and piling				Other precast concrete products	CE database December 2024, V4.0	Precast concrete block, medium density solid, average strengt		P2
sequestered carbon) A1-A3 Product stage (eecl: sequestered carbon)	Ready-mix concrete, RC 25/30 (25/30 MPa), with Portland Intestone Cement (14% Limestone)	20m3	5319.7	5319.73 Foundation, sub-surface, basement and retaining wa	a 20	Strip foundations	1.1.Foundations and piling				Ready-mix concrete for foundations and internal i	a CE database August 2019, V3.0	Ready-mix concrete		P2
A1-A3 Product stage (eac	contraction (of the Contraction)		6957.6				1.1.Foundations and pilling								
sequestered carbon) A1-A3 Sequestered Carbon							1.1.Foundations and piling								
A1-A3 Sequestered Carbon	Norter, 1:4 cement send mix (IStructE) Precest concrete block, medium density solid, average stren	227,00 gh 6.96m3		0 0 Foundation, sub-eurface, basement and retaining wa 0 0 0 Foundation, sub-eurface, basement and retaining wa		Trench block morter Trench blocks	1.1.Foundations and piling				Mortar (mascrey/bricklaying) Other precast concrete products	The Structural Carbon Tool, v2.0 ICE database December 2024, V4.0	wonar Precast concrete block, medium density solid, average strengt		P2 P2
A1-A3 Sequestered Carbon	Ready-mix concrete, RC 25/30 (25/30 MPa), with Portland imestone Cement (14% Limestone)	20 mG	6	0 0 Foundation, sub-eurface, basement and retaining wa	a 20	Strip foundations	1.1 Foundations and piling				Ready-mix concrete for foundations and internal i	sKE database August 2019, V3.0	Ready-mix concrete		P2
A1-A3 Sequestered	contraction (of the Contraction)						1.1.Foundations and piling								
44	Aortar, 1:4 cament aand mix (IShucilia)	2.21m3	93.1	 \$2.14 Foundation, sub-surface, basement and retaining water 	8	Trench block mortar	1.1.Foundations and piling				Mortar (masonny/bricklaying)	The Structural Carbon Tool, v2.0	Votar		P2
A4	Precast concrete block, medium density solid, average stren Resolvants concrete, DC 25/10 (25/10 MDe), with Division!	an 6.96m2	285	205 Foundation, sub-eurface, basement and retaining was 229.80 Foundation, sub-eurface, basement and retaining was		Trench blocks	1.1 Foundations and piling				Other precast concrete products Ready-mix concrete for foundations and internal o	ICE database December 2024, V4.0	Precast concrete block, medium density solid, average strengt Ready-mix concrete	1	P2
A4	Ready-mix concrete, IRC 25/30 (25/30 MPa), with Portland imentione Carment (14% Limentone)	20m3	229.8		a 20	Ship foundations							Ready-mix concrete		P2
453	Nortar, 1:4 camerit sand mix (IStruct&)	2.21 m3	36.0			Trench block mortar Trench blocks	1.1.Foundations and piling 1.1.Foundations and piling 1.1.Foundations and piling				Mortar (mascrey/bricklaying) Other precast concrete products	The Structural Carbon Tool, v2.0 ICE database December 2024, V4.0	Mortar Precast concrete block, medium density solid, average strengt		P2
653	recast concrete block, medium density sold, average stren Ready-mix concrete, RC 25/30 (25/30 MPa), with Portland	ign estera	205.3			linenda boloka Sitrip foundationa	1.1.Foundations and piling					RCE database December 2024, VA.0	Precast concrete block, medium density solo, average ithenge		P2
453	inestone Cement (14% Limestone)	2010	200.0	555 A	8 20		1.1.Foundations and piling						Heady-risk concrete		12
83	Nortar, 1:4 cement sand mix (IStructE) Precast concrete block, medium density solid, average stren	2.21m0 gh 6.96m0		6 Foundation, sub-surface, basement and retaining was 6 Foundation, sub-surface, basement and retaining was		Trench block mortar Trench blocks	1.1.Foundations and piling 1.1.Foundations and piling				Mortar (masonry/bricklay/ng) Other precast concrete products	The Structural Carbon Tool, v2.0 CE database December 2024, V4.0	Mortar Precast concrete block, medium density solid, average strengt		P2
**	and unit concrete DC 25/30 (25/30 MDe) with Doctand	20-20-20		OFFENDERIN, Sub-surface, basement and retaining wa OFFENDERIN, sub-surface, basement and retaining wa		Strip foundations	1.1.Foundations and pling				Ready-mix concrete for foundations and internal i		Ready-mix concrete		P2
83	inestone Cement (14% Linestone)	410					1.1.Foundations and pilling						And print Concerns		
22	fortar, 1:4 cement sand mix (IStructE)	2.21m3	7.11	14 22 Foundation, sub-surface, basement and retaining wa		Trench block mortar	1.1.Foundations and piling				Mortar (masonry/bricklaying)	The Structural Carbon Tool, v2.0	Motar	Dumper truck, 19 ton capacity, 100% fill rat	
22	Precast concrete block, medium density solid, average stren	ga 6.96m2	14.5			Trench blocks	1.1.Foundations and piling				Other precast concrete products	ICE database December 2024, V4.0	Precast concrete block, medium density solid, average strengt		382
C2	Ready-mix concrete, IRC 25/30 (25/30 MPa), with Portland Imentone Cement (14% Limentone)	20 m2	70.2		la 20	Strip foundations	1.1.Foundations and piling				Ready-mix concrete for foundations and internal i	BKE database August 2019, V3.0	Ready-mix concrete	Dumper truck, 19 ton capacity, 100% fill ra	382
30	Acraw, 1:4 cement aand mix (IStructE)	2.21 m3	91.8 1.6	5 1.65 Foundation, sub-surface, basement and retaining way		Trench block mortar	1.1.Foundations and piling 1.1.Foundations and piling				Mortar (masonry/bricklaying)	The Structural Carbon Tool, v2.0	Votar	Concrete recycling, concrete crushing	P2
8	Precast concrete block, medium density solid, average stren	ph 6.96m2	2.4			Trench blocks	1.1.Foundations and piling				Other precast concrete products	ICE database December 2024, V4.0	Precast concrete block, medium density solid, average strengt	Concrete recycling, concrete crushing	P2
8	Ready-mix concrete, RC 25/30 (25/30 MPa), with Portland imestone Cement (14% Limestone)	20+0	16.62	5 16.62 Foundation, sub-surface, basement and retaining wa	a 23	Strip foundations	1.1.Foundations and piling				Ready-mix concrete for foundations and internal i	aKE database August 2019, V3.0	Ready-mix concrete	Concrete recycling, concrete crushing	P2
C3 C3-balancing	Aortar, 1:4 cement wand mix ((Structli)	2.21m3	21.7	21.7 Grundation, sub-surface, basement and retaining water		Trench block mortar	1.1.Foundations and piling 1.1.Foundations and piling				Mortar (mascery/bricklaying)	The Structural Carbon Tool, v2.0	Notar	1	P2
C3-balancing	Precast concrete block, medium density solid, average stren Ready-mix concrete, IRC 25/30 (25/30 MPa), with Portland	endeza nig	4	0 0 Foundation, sub-surface, basement and retaining wa		Trench blocks	1.1.Foundations and piling				Other precast concrete products	CE database December 2024, V4.0	Precast concrete block, medium density solid, average strengt	1	P2
C3-balancing C3-balancing	inestone Cement (14% Linestone)	20+0		0 0 Foundation, sub-eurface, basement and retaining wa	a 20	Strip foundations	1.1.Foundations and piling				Ready-mix concrete for foundations and internal i	aKE database August 2019, V3.0	Ready-mix concrete		P2
0 0	ilortar, 1:4 camerit sand mix (ISBrucili)	2.21+0	-39.64	 -79.33 Foundation, sub-surface, basement and retaining water 	8	Trench block mortar	1.1.Foundations and piling 1.1.Foundations and piling				Mortar (maxony/bricklaying)	The Structural Carbon Tool, v2.0	Motar	1	P2
D	Precast concrete block, medium density solid, average stren	ga 6.96m2	-221.10			Trench blocks	1.1.Foundations and piling				Other precast concrete products	ICE database December 2024, V4.0	Precast concrete block, medium density solid, average strengt		P2
0	Ready-mix concrete, IRC 25/30 (25/30 MPa), with Portland imestone Cement (14% Limestone)	2010	-395.2		a 23	Strip foundations	1.1.Foundations and piling				Ready-mix concrete for foundations and internal	aKE database August 2019, V3.0	Ready-mix concrete	1	P2
Ĩ			8012.2				1.1.Foundations and piling 1.1.Foundations and piling					EPD UK manufactured Prevail Coversite Germed Prevail			+
A1-A3 Product stage (eecl. sequestered carbon)	Precast concrete ground beam, 2400 kg/m3 (British Precast	s 2.15m2	961.0	d 961.02 Floor slabs, ceilings, roofing decks, beams and roof		Fixor beams	1.2.1 Lowest slab				Structural concrete (beams, columns, piling)	BPD UK manufactured Precast Concrete Ground Bean Produced by members of the British Precast Architectu and Structural (BPAS)	Precast concrete ground beam		P2
A1-A3 Product stage (eecl, sequestered carbon)	nutation - EPS	5.06m2	238.7	238.7 Pioor slabs, ceilings, roofing decks, beams and roof		Floor EPS insulation under screed	12.1 Lowest slab				EPS (expanded polystyrene) insulation	FIEH WLC Conventions v1	Insulation - EPS		P7
A1-A3 Product stage (eecl. sequestened carbon) &1-&3 Product stage (eecl.	Screed - Leveling	5.06m2	4009.2	4803.28 Floor slabs, ceilings, roofing decks, beams and roof		Floor screed	1.2.1 Lowest slab				Leveling screeds (for floors)	FHH WLC Conventions v1	Screed - Leveling		P2
	naulation - EPS	7.3m3	34.3	344.38 Floor slabs, ceilings, roofing decks, beams and roof		Floor EPS blocks	1.2.1 Lowest slab				EPS (expanded polystyrene) insulation	FHH WLC Conventions v1	Insulation - EPS		P7
sequestered carbon) A1-A3 Product stage (exc sequestered carbon)			6412.2	6413.35			12.1 Lowest slab								
sequestared carbon)												EPD UK manufactured Precast Concrete Ground Beam			-
A1-A3 Sequestered Carbon	Precast concrete ground beam, 2400 kg/m3 (British Precast	0 2.15m0	•	0 0 Floor slabs, ceilings, roofing decks, beams and roof		Floor beams	1.2.1 Lowest slab				Structural concrete (beams, columns, piling)	EPD UK manufactured Precast Concrete Ground Beam Produced by members of the British Precast Architectu and Structural (BPAS) DBI BI C Comprehense of	Precast concrete ground beam		P2
A1-A3 Sequestered Carbon A1-A3 Sequestered Carbon	nutation - EPS Screed - Leveling	5.06m3 5.06m3	-0.85	-0.00 Floor slabs, ceilings, roofing decks, beams and roof & Floor slabs, ceilings, roofing decks, beams and roof A Tore slabs, ceilings, roofing decks, beams and roof		Floor EPS insulation under screed Floor screed	12.1 Lowest slab 12.1 Lowest slab				EPS (expanded polystyrene) insulation Leveling screeds (for floors)	FHH WLC Conventions v1 FHH WLC Conventions v1	Insulation - EPS Screed - Leveling		P7 P2
A1-A3 Sequestered Carbon A1-A3 Sequestered	neutrion - EPS	73+3	-1.2			Floor EPS blocks	12.1.Lowest slab				EPS (expanded polystyrene) insulation	FHH WLC Conventions v1	Insulation - EPS		P7
Carbon												GPD UK manufactured Precast Concrete Ground Bear			+
**	Precast concrete ground beam, 2400 kg/m3 (British Precast	2.15m3	548.2	148.28 Floor slabs, ceilings, roofing decks, beams and roof		Fixor beams	12.1Lowest slab 12.1Lowest slab				Structural concrete (beams, columns, piling)	EPD UK manufactured Precast Concrete Ground Beam Produced by members of the British Precast Architectured and Structural (BPAS) DBI INI Comparison of	Precast concrete ground beam		P2
54 54	nuiston - EPS Streed - Leveling	5.06 m2 5.06 m2	1.40 203.5	 1.42 Floor slabs, ceilings, roofing decks, beams and roof 203.52 Floor slabs, ceilings, roofing decks, beams and roof 		Floor EPS insulation under screed Floor screed Floor EPS blocks	12.1 Lovert slab 12.1 Lovert slab				EPS (expanded polystyrene) insulation Leveling screeds (for floors)	Piel WLC Conventions v1	Insulation - EPS Screed - Leveling Insulation - EPS		P7 P2
84 84	naulation - EPS	7.3m3	2.1 355.3	2 1 Floor slabs, ceilings, roofing decks, beams and roof 4 355.3		Foor EPS blocks	12.11.overt slab 12.11.overt slab				SPS (expanded polystyrene) insulation	FIGH WLC Conventions v1	Insulation - EPS		- P7
450	Precast concrete ground beam, 2400 kg/m3 (British Precast	s 2.15m2	11.2	11.28 Poor slabs, ceilings, roofing decks, beams and roof		Fixor beams	1.2.1 Lowest slab				Structural concrete (beams, columns, piling)	ePO UK manufactured Precast Concrete Ground learn Produced by members of the British Precast Architectu and Structural (BPAS)	Procest concrete ground beam		P2
453	nuulation - EPS	5.0640	27.6	27.01 Floor slabs, ceilings, roofing decks, beams and roof		Floor EPS insulation under screed	12.1Lowest slab 12.1Lowest slab				EPS (expanded polystyrene) insulation	And Selectural (BPAS) Field WLC Conventions v1	Insulation - EPS Screed - Leveling Insulation - EPS		P7
453	nuision - EPS	73m3	40.1	40.11 Floor slabs, ceilings, tooling block, blains and roof 40.11 Floor slabs, ceilings, roofing decks, beams and roof 40.77 M		Floor acreed Floor EPS blocks	12.1.Lowest slab				EPS (expanded polystyrene) insulation	PIPI WLC Conventions v1	insulation - EPS		P7
83	Precast concrete ground beam, 2400 kg/m3 (British Precast	2.15m0		0 Floor slabs, ceilings, roofing decks, beams and roof		Floor beams	12.1 Lowest slab				Structural concrete (beams, columns, piling)	EPD UK manufactured Precast Concrete Ground Beam Produced by members of the British Precast Architectures and Structures (BPAS) Friel WLC Conventions v1	Precast concrete ground beam		p2
80	nulation - EPS	5.00 10		OFFoor slabs, ceilings, roofing decks, beams and roof		Floor EPS insulation under screed	12.1 Lowest slab				EPS (expanded polystyrene) insulation	and Structural (BPAS) FHH WLC Conventions v1	Insulation - EPS		P7
83 83	Screed - Leveling neulation - EPS	5.06m2 7.3m2		6 Floor slabs, ceilings, roofing decks, beams and roof 6 Floor slabs, ceilings, roofing decks, beams and roof		Floor screed Floor EPS blocks	12.1 Lowest slab				Leveling screeds (for floors) SPS (expanded polystyrene) insulation	FHH WLC Conventions v1 FHH WLC Conventions v1	Screed - Leveling Insulation - EPS		P2 P7
83							12.1 Lowest slab					EPD UK manufactured Precast Concrete Ground Bean			
C2	Precast concrete ground beam, 2400 kg/m3 (British Precast	2.1540	7.52	5 15.1 Floor slabs, ceilings, roofing decks, beams and roof		Fitor beams	12.1 Lowest slab				Structural concrete (beams, columns, piling)	Produced by members of the British Precast Architectu and Structural (BPAS)	Procast concrete ground beam	Dumper truck, 19 ton capacity, 100% fill re	##2
62	nulation - EPS	5.06m3	0.15			Floor EPS insulation under screed	12.1 Lowest slab				EPS (expanded polystyrene) insulation	FHH WLC Conventions v1	insulation - EPS	Trailer combination, 40 ton capacity, 100% Bi rate	Ap7
8	Screed - Leveling	5.06m2	15.52			Floor screed	12.1 Lowest slab				Leveling screeds (for floors)	FIH WLC Conventions v1	Screed - Leveling	Dumper truck, 19 ton capacity, 100% fill ra	a#2
62	naulation - EPS	7.3m3	0.21			Floor EPS blocks	12.1 Lowest slab				EPS (espanded polystyrene) insulation	FIEH WLC Conventions v1	Insulation - EPS	Trailer combination, 40 ton capacity, 100% 61 rate	⁴ 97
	Precast concrete ground beam, 2400 kolm3 (British Precast	2.15+0	22.4			Floor beams	12.1 Lowest slab				Structural concrete (beams, columns, piling)	EPD UK manufactured Precast Concrete Ground Bear Produced by members of the British Precast Architectu	Precast concrete ground beam	Concrete recycling, concrete crushing	
	Precast concrete ground beam, 2400 kg/m3 (British Precast Insulation - EPS	2.1510	1.8			Floor beams Floor EPS insulation under screed	12.1.Lowest slab					Produced by members of the British Precast Architectu and Structural (BPAS) DBM WI C Conventions v1	Recart concrete ground beam Insulation - EPS	During the second secon	P7
102	Screed - Leveling neurosco - CPS	5.05 40	156.7	156.7; Roor slabs, ceilings, roofing decks, beams and roof 1.66 Roor slabs, ceilings, roofing decks, beams and roof 2.06 IE Boor slabs, ceilings, motion decks, beams and roof 1.00 IE Boor slabs, ceilings, motion decks, beams and roof		Floor acreed	12.1 Lowest size				EPS (expanded polystyrene) insulation Leveling screeds (for floors) EPS (expanded polystyrene) insulation	Field WLC Conventions v1	Screed - Leveling	Concrete recycling, concrete crushing DVC conducts incidentifico	P2
a		1.000	200.4	200. option same, carrige, roomy of CK, DBITE and FOF 200.40			12.1 Lowest slab				на и спорт ими разриучени станий?	CDD 11K manufactured Darrad Coverally Council Room		· · · · · · · · · · · · · · · · · · ·	4
C3-balancing	Precast concrete ground beam, 2400 kg/m3 (British Precast	s 2.15m2	•	0 Floor slabs, ceilings, roofing decks, beams and roof		Floor beams	12.1 Lowest slab				Structural concrete (beams, columns, piling)	EPD UK manufactured Precast Concrete Ground Beam Produced by members of the British Precast Architectu and Structural (BPAS)	Precast concrete ground beam		P2
C3-balancing C3-balancing	neulation - EPS Greed - Laveling	5.0610	0.85	0 0.85 Floor slabs, ceilings, roofing decks, beams and roof 0 Floor slabs, ceilings, roofing decks, beams and roof		Floor EPS insulation under screed Floor screed	12.1 Lowest slab 12.1 Lowest slab				EPS (expanded polystyrene) insulation Leveling screeds (for floors)	FIGH WEC Conventions v1 FIGH WEC Conventions v1	Insulation - EPS Screed - Leveling	1	P7 P2
C3-balancing C3-balancing C3-balancing	rdreed - Leveling neutrion - EPS	73+0	12	127 Foor state, cellings, rooning decks, beams and roof 127 Foor states, cellings, roofing decks, beams and roof 4 9 44		Floor EPS blocks	12.1 Lowest slab 12.1 Lowest slab 12.1 Lowest slab				Leveling screeds (or noors) EPS (expanded polystyrene) insulation	FHH WLC Conventions v1	screed - Leveling Insulation - EPS		\$7
D	Precast concrete ground beam, 2400 kg/m3 (British Precast	2.15m2	-115.0	2.58 -229 SB Floor slabs, ceilings, roofing decks, beams and roof		Floor beams	12.1 Lowest slab				Structural concrete (beams, columns, piling)	EPD UK manufactured Precast Concrete Ground Bear Produced by members of the British Diverset America	Precast concrete ground beam		P2
	necasi concrete ground beam, 2400 kgm3 (anten Precas) Insulation - EPS	5.00-10		-229.949-007 sabs, ceange, roomg secks, seams and roof -110.2 Floor slabs, ceilings, roofing decks, beams and roof		Floor EPS insulation under screed	12.1.Lowest slab				EPS (expanded polystyrene) insulation	EPD UK manufactured Precast Concrete Ground Bean Produced by members of the British Precast Architectu and Structural (BPAS) FIRH WLC Conventions v1	Insulation - EPS	l	P7
0	Screed - Leveling Insulation - EPS	5.0610	-54.25 -60 -87.41	-118.0 =Nor labor, calings, itomic deck, barris and roof -100.04Floor labor, calings, iroding decks, bears and roof -170.52 Floor slabs, calings, roding decks, bears and roof		Floor screed Floor screed Floor EPS blocks	12.1 Lowest slab				Loveling acreeds (for floors) Leveling acreeds (for floors) EPS (expanded polystyrene) insulation	Ref WLC Conventions v1 Ref WLC Conventions v1 Ref WLC Conventions v1	Inclusion - Lo-S Screed - Leveling Insulation - EPS	1	P2 P7
0			7641.4	7691.91			121Lovet slab 121Lovet slab 121Lovet slab				, , exception contact				+
A1-A3 Product stage (eecl. sequestered carbon)	Board - Chipboard	tea	295	5 299 Floor slabs, ceilings, roofing decks, beams and roof		Chipboard first floor	2.2.Upper floor				Particleboard	FHH WLC Conventions v1	Board - Chipboard		25
A1-A3 Product stage (eecl. sequestered carbon)	loard - Plasterboard	2m3	540			Plasterboard for ceilings	2.2.Upper floor				Regular gypeum board	FIH WLC Conventions v1	Board - Planterboard		P232
A1-A3 Product stage (eecl. sequestered carbon)	Broadloom carpet with nylon 6.6 pile material, 2.43 kg/m2, maximum surface pile weight 1000 g/m2 (One Click LCA)	67.48m2	686.2			First floor carpet	2.2.Upper floor				Carpet flooring	One Click LCA	Broadcom carpet with rylon 6.6 pile material		P7
A1-A3 Product stage (eecl. sequestered carbon)	aminate flooring, 8.8 kg/m2 (Kronospan Ltd.)	67.48m2	439.00			Ground floor laminate	2.2.Upper floor				Laminate fooring	6PD Laminate Flooring	Laminate flooring		P7
A 1-A3 Product stage (sect. sequestered carbon)	ioists - Engineered timber	228m	903	9 905 Floor slabs, ceilings, roofing decks, beams and roof		First floor and ceiling joints	2.2.Upper floor		_		Plain wood/limber (softwood and hardwood)	FIH WLC Conventions v1	Joiets - Engineered timber		PS
sequestered carbon)	Naste mineral wool (One Olick LCA)	294kg	36	2 3.62 Floor slabs, ceilings, roofing decks, beams and roof		500mm mineral wool in loft	2.2.Upper floor				Glass wool insulation	One Click LCA	Waste mineral wool		P3
A1-A3 Product stage (eac sequestered carbon)			2931.0	2938.83			2.2.Upper floor		Т						
A1-A3 Sequenteed Carbon	Soard - Chipboard	100	-1005	 Hoor slabs, ceilings, roofing decks, beams and roof 		Chipboard first floor	2.2.Upper floor				Particleboard	FIGH WLC Conventions v1	Board - Chipboard		8
A1-A3 Sequestered Carbon A1-A3 Sequestered Carbon	acaro - Haaterboard Broadcom carpet with nylon 6.6 pile material, 2.43 kg/m2,	2 m3 67.48 m2		O O O O O O O O O O O O		Plasterboard for callings First floor carpet	2.2.Upper floor 2.2.Upper floor				Regular gypeum board Carpet flooring	FIEH WLC Conventions v1 One Click LCA	Board - Plasterboard Broadcom carpet with nylon 6.6 pile material	1	#202 P7
A1-A3 Sequenteed Carbon	Saard - Plasterboard Broatloom carpet with nylon 6.6 pile material, 2.43 kg/m2, naximum surface pile weight 1000 g/m2 (One Click LCA) animate flooring, 8.8 kg/m2 (Wonospan Ltd.) Iolats - Engineered timber	67.40 12	-1149.7	-1140.77 Enistes and coverings -1140.77 Enistes and coverings -17383 Elicor stabs, ceilings, trofing decks, beams and roof		Ground foor laminale	2.2.Upper floor				Laminate fooring Plain wood/limber (softwood and hardwood)	CPD Laminate Flooring FHH WLC Conventions v1	Laminate flooring Joints - Engineered Ember		\$7
A1-A3 Sequestered Carbon A1-A3 Sequestered Carbon	nema - as gitterred timber Naste mineral wool (One Olick LCA)	22193 2944g	-1789.1	D Floor slabs, ceilings, roofing decks, beams and roof		reas and rand ceang joints 500mm mineral wool in loft	2.2.Upper floor 2.2.Upper floor 2.2.Upper floor				r was exclutioner (softwood and hardwood) Glass wool insulation	One Click LCA	wwww/grietera snor	1	P3
Carbon	and Childrend		-2940.0	-3948.55		Chickensed Freed Frees	2.2.Upper floor				Desichberg	Datum C Committee of	Torrel Chinksond		~
A4	kaard - Chipboard Saard - Plasterboard Incedicom carpet with nylon 6.6 pile material, 2.43 kg/m2,	2 40	18.9	 18.00 Floor slabs, ceilings, roofing decks, beams and roof 26.80 Floor slabs, ceilings, roofing decks, beams and roof 		Plasterboard for cellings	2.2.Upper floor 2.2.Upper floor				Particleboard Regular gypeum board	FIGH WLC Conventions v1	Board - Chipboard Board - Plasterboard	1	P222
A4	Incadicom carpet with nylon 6.6 pile material, 2.43 kg/m2, naximum surface pile weight 1000 g/m2 (One Click LCA) aminate flooring, 8.8 kg/m2 (Vonospan Ltd.)	67.48m2	2.9			First floor carpet	2.2.Upper floor				Carpet flooring	One Click LCA	Broadloom carpet with rylon 6.6 pile material		P7
44	aminate ficering. 8.8 kg/m2 (Kronospan Ltd.) Iolats - Engineered timber	07.48192 22849	214.21 26.92	214.21 Finishee and coverings 26.99 Floor stabs, ceilings, roofing decks, beams and roof		First floor and ceiling joints	2.2.Upper floor 2.2.Upper floor				Laminate flooring Plain wood/timber (softwood and hardwood)	EPD Laminate Flooring FIH WLC Conventions v1	Laminate flooring Jolets - Engineered timber	1	P5

er F	Binds winned and One Olds I CA				Provide and a start of the start of the start of the		200-mar and an and in 1-10	10 Denne finne			Place and invities	Des Click 1 Ch	Name and and		In I	
44			244	295.0				2.2.Upper floor 2.2.Upper floor 2.2.Upper floor 2.2.Upper floor							Ê –	
453 8	active - Unpolice Board - Plasterboard		10 24.1	24.1	Floor stabs, cellings, roofing decks, beams and roof Floor stabs, cellings, roofing decks, beams and roof		Plasterboard for ceilings	2.2.Upper foor 2.2.Upper foor			Particitations Regular gypeum board	FHH WLC Conventions v1	Board - Chipboard Board - Plasterboard		P222	
A53 B	Broadisom carpet with nylon 6.6 pile material, 2.43 kg/m2, maximum surface pile weight 1000 g/m2 (One Click LCA) Laminate flooring, 8.8 kg/m2 (Kronospan Ltd.)	67.4	61.7	61.73	Finishes and coverings		First floor carpet Ground floor laminate	2.2.Upper floor 2.2.Upper floor			Carpet flooring	One Click LCA	Broadcom carpet with nylon 6.6 pile material		P7	
ASI 1	Laminate flooring, B.B kg/m2 (Kronospan Ltd.) Joiats - Engineered timber	67.4	n2 1510 n 202	0 151.0 20.2	Finishes and coverings Floor slabs, ceilings, roofing decks, beams and roof		First floor and celling joints	2.2.Upper floor 2.2.Upper floor			Laminate Society Plain woodTimber (softwood and hardwood)	GPD Laminate Flooring FHH WLC Conventions v1	Laminute flooring Joints - Engineered timber Waste mineral wool		97 95	
AS-3 IA	Waste mineral wool (One Olick LCA)	29	lig 0.7 290.4	0.70 290.4	Floor slabs, ceilings, roofing decks, beams and roof		500mm mineral wool in loft	2.2.Upper floor 2.2.Upper floor 2.2.Upper floor			Glass wool insulation	One Click LCA			P3	
4 C0	Board - Chipboard Board - Plasterboard Broadisom carpet with nyion 6.6 pile material, 2.43 kg/m2,		90 (d) 90 (d)	0 0	Floor slabs, ceilings, roofing decks, beams and roof Floor slabs, ceilings, roofing decks, beams and roof		Chipboard first floor Plasterboard for ceilings	2.2.Upper floor			Particleboard Regular gypsum board	FIREWLC Conventions v1 FIREWLC Conventions v1	Board - Chipboard Board - Plasterboard		95 9232	
83 68	Broadicom carpet with nylon 6.6 pile material, 2.43 kg/m2, maximum surface pile weight 1000 g/m2 (One Click LCA) Laminate flooring, 8.8 kg/m2 (Kronospan Ltd.)	67.4	m2 0	o o	Finishes and coverings		First floor carpet	2.2. Upper floor			Carpet flooring	One Click LCA	Broadcom carpet with rylon 6.6 pile material		P7	
80 L		67.4	-2		Finishes and coverings Floor slabs, ceilings, roofing decks, beams and roof		Ground floor laminate First floor and ceiling joists	2.2.Upper floor 2.2.Upper floor			Laminate fooring Plain wood/limber (softwood and hardwood)	EPD Laminate Flooring FIGH WLC Conventions v1 One Click LCA	Laminate flooring Joints - Engineered timber		P7 P5	_
83 M	Waste mineral wool (One Olick LCA)	22	g (Floor slabs, ceilings, roofing decks, beams and roof Floor slabs, ceilings, roofing decks, beams and roof		500mm mineral wool in loft	2.2.Upper floor 2.2.Upper floor			Giass wool insulation	One Click LCA	Waste mineral wool		P3	
84	Broadcom carpet with nylon 6.6 pile material, 2.43 kg/m2, maximum surface pile weight 1000 pim2 (Dee Click LCA)	67.4	in2 9535.7	3271.2	Finishes and coverings		First floor carpet	2.2.Upper floor			Carpet fooring	One Click LCA	Broadloom carpet with nylon 6.6 pile material		P7	
24 Li	naximum surface pile weight 1000 gin2 (One Click LCA) Laminate flooring, 8.8 kg/m2 (Kronospan Ltd.)	67.4	n2 2294.3 4630.0	5954.9 9256.3	Finishes and coverings		Ground floor laminate	2.2.Upper floor 2.2.Upper floor 2.2.Upper floor			Caminate Sooring	CPD Laminate Flooring	Laminate flooring		P7	
C2 8	Board - Chipboard		nû (2	2.5	Floor slabs, ceilings, roofing decks, beams and roof		Chipboard first floor	2.2.Upper floor			Particleboard	FHH WLC Conventions v1	Board - Chipboard	nailer combination, 40 ton capacity, 100%	PS	
C2 8	Board - Plasterboard	4	nû 153	30.7	Floor slabs, ceilings, roofing decks, beams and roof		Plasterboard for cellings	2.2.Upper floor			Regular gypsum board	FHH WLC Conventions v1	Board - Plasterboard	lumper truck, 19 ton capacity, 100% fill ra	9232	
C2 8	Broadicom carpet with nylon 6.6 pile material, 2.43 kg/m2,	67.4	n2 0.3	0.63	Finishes and coverings		First floor carpet	2.2.Upper floor			Carpet flooring	One Click LCA	Broadloom carpet with mylon 6.6 pile material	tailer combination, 40 ton capacity, 100%	P7	
C2	maximum surface pile weight 1000 gim2 (One Olick LCA) Laminate flooring, 8.8 kgim2 (Kronospan Ltd.)	67.4			Finishes and coverings		Ground floor laminate	2.2.Upper floor				GPD Laminate Flooring	Laminate flooring	Il rate tailer combination, 40 ton capacity, 100%	P7	
c2 2	Joiata - Engineered timber	221	in 11	4 3.6	Floor slabs, ceilings, roofing decks, beams and roof		First floor and ceiling joints	2.2.Upper floor			Plain wood/limber (softwood and hardwood)	FHH WLC Conventions v1	Joints - Engineered timber	nailer combination, 40 ton capacity, 100%	PS	
c2 (*	Waste mineral wool (One Click LCA)	29			Floor slabs, ceilings, roofing decks, beams and roof		500mm mineral wool in loft	2.2.Upper floor			Glass wool insulation	One Click LCA	Waste mineral wool	umper truck, 19 ton capacity, 100% fill ra	P 3	
62			26.3	40.0				2.2.Upper floor							\square	
ca 🛛 🛛	Board - Chipboard		nG 8.4	s 8.45	Floor slabs, ceilings, roofing decks, beams and roof		Chipboard first floor	2.2.Upper floor			Particleboard	FIRH WLC Conventions v1	Board - Chipboard	Nade wood and wood products incineratio	#5	
ca e	Board - Plasterboard		e.0 6m	0.90	Floor slabs, ceilings, roofing decks, beams and roof		Plasterboard for cellings	2.2. Upper floor			Regular gypsum board	FIH WLC Conventions v1	Board - Plasterboard	lacycling of gypsum board, gypsum uiverizing and handling	P232	
C1 0	Broadborn carpet with rylon 6.6 pile material, 2.43 kg/m2, maximum surface pile weight 1000 g/m2 (One Click LCA) Laminate flooring, 8.8 kg/m2 (Kronospan Ltd.)	67.4			Finishes and coverings		First floor carpet	2.2.Upper floor				One Click LCA	Broadloom carpet with rylon 6.6 pile material	VC products incineration	P7	
C3 L4		67.4	1226.5		Finishes and coverings		Ground floor laminate	2.2.Upper floor 2.2.Upper floor				GPD Laminate Flooring	Laminate flooring	VC products incineration Naste wood and wood products incineratio	P7	
	Joints - Engineered timber	221	Im 12.0 1596.0	1506.8			First floor and ceiling joints	2.2.Upper floor 2.2.Upper floor			Plain wood/limber (softwood and hardwood)	FIH WLC Conventions v1	Joiets - Engineered timber	www.wood and wood products incinerate		
C3-balancing B	Board - Chipboard Board - Disstantyward		100		Floor slabs, ceilings, roofing decks, beams and roof Door slabs, ceilings, motivo decks, beams and roof.		Chipboard first floor Disstantioned for collines	2.2.Upper floor 2.2.Upper floor 2.2.Upper floor			Particleboard Decision measure board	PIH WLC Conventions v1	Board - Chipboard Board - Plasterboard		P5	
C3-balancing B	Board - Plasterboard Broadborn carpet with nylon 6.6 pile material, 2.43 kg/m2, maximum surface nile weinth 1000 cim2 (Dee Click I CA)	67.4			Finishes and coverings		First floor carpet	2.2.Upper floor 2.2.Upper floor	1		Carpet flooring	One Click LCA	Broadoon carpet with nylon 6.6 pile material		P7	
C3-balancing Li	maximum sustance pile weight 1000 gin/2 (One Olick LCA) Laminate flooring, 8.8 kg/m2 (Konospan LM) Joints - Engineered timber	67.4	12 1111.6	1111.0	Finishes and coverings Floor slabs, ceilings, roofing decks, beams and roof		Ground floor laminate First floor and ceiling joints	2.2.Upper floor			Laminate flooring Plain wood timber (softwood and hardwood)	CPD Laminate Flooring FIGH WLC Conventions v1	Laminate flooring Joints - Engineered Smber		\$7 ~	
C3-balancing A: C3-balancing	Joists - Engineered timber Waste mineral wool (One Click LCA)	221	1789. 2910.4	1789.1 2910.4	Floor slabs, ceilings, roofing decks, beams and roof Floor slabs, ceilings, roofing decks, beams and roof		First floor and ceiling joints 500mm mineral wooi in loft	12 Upper floor 22 Upper floor 22 Upper floor			Plain woodlimber (softwood and hardwood) Glass wool insulation	RIH WLC Conventions v1		ert materials landfilling	Ĕ	
C4 M C4-balancing M	wate mineral wool (One Click LCA)	24	9 0.7 9	0.7	Floor slabs, ceilings, roofing decks, beams and roof		\$00mm minetal wool in loft	2.2.Upper floor			Glass wool insulation		Naste mineral wool	en militas lanzeng	P3	
0	exerve - unipotaird Board - Plasterboard		na -227.4 na -1.9	-474.00 -3.31	Floor slabs, ceilings, roofing decks, beams and roof Floor slabs, ceilings, roofing decks, beams and roof		Chipboard first floor Plasterboard for ceilings	2.2.Upper floor 2.2.Upper floor			Particleboard Regular gypsum board	Rel WLC Conventions v1 Rel WLC Conventions v1	Board - Chipboard Board - Plasterboard		P232	
0	Board - Plasterboard Broadboom carpet with nyion 6.6 pile material, 2.43 kg/m2, maximum surtose pile weight 1000 g/m2 (One Click LCA) Laminate footing, 8.8 kg/m2 (Kronospan L35)	67.4	-209.1	418.2	Finishes and coverings		First floor carpet	2.2.Upper floor			Carpet flooring	One Click LCA	Broadloom carpet with rylon 6.6 pile material		P7	
0	Laminate flooring, 8.8 kg/m2 (Kronospan Ltd.) Joiats - Engineered timber	67.4 221	n2 -375.8 m -315.1	-751.6	Finishes and coverings Floor slabs, ceilings, roofing decks, beams and roof		Ground floor laminate First floor and ceiling joints	22.Upper floor 22.Upper floor			Laminate flooring Plain wood/limber (softwood and hardwood)	EPD Laminate Flooring FHH WLC Conventions v1	Laminate flooring Joints - Engineered Ember		97 PS	_
P			9724.9	14271.4		_		2.2.Upper floor 2.2.Upper floor		-		-			+ +	
A1-A3 Product stage (eecl. C sequestered carbon) m	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 324a42 mm, 2100 kg/m3 (Eternit)	0 75.5	m2 806.9	0 805.92	Floor slabs, cellings, roofing decks, beams and roof	22.4		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete other precast concrete products	GPD Eternit Dechatein Heidelberg Eternit Dechatein Verona Eternit Dechatein Göteborg Eternit Dechatein	Concrete roof tiles		P2	
A1-A3 Product stage (eacl. G	ren, a rox Agrica (Alernit) Geolestile, generic, 312 g/n2 /1.02 gz/f23, Cronovaliov 200				Floor slabs, ceilings, roofing decks, beams and roof			2.3.Roofs			Watermotion motion waters incl. Insulation and concrete	Kapitadi Elemit AG One Click LCA	Geolextile, generic		⊢	
sequestered carbon) in	nm, 2100 kg/ml (Ekenii) Gaotastia, ganaric, 312 g/m2 (1.02 co.PD); Composition: PP mat.neu-wexen PP (Bit (Dne Click LCA) Stene wool mutuation panela, unitado, ganaric, 1 = 0.037 Wink, R = 2.70 accoW (15 827°HZTU), 550 kg/ml (b 26 km2) (papicable for densitien: 100-159 kg/ml (b 24-3.36	75.5	55.1	55.11	www.swbs, ceangs, rooming decks, beams and roof	1		a a multi			tiles, for UK	one cad LDA	umanum, generic		r'	
A1-A3 Product stage (seci. V	WinK, R = 2.70 m2K/W (15 82*Fh/BTU), 150 kg/m3 (8.36	75.1	in2 737.5	737.5	Floor slabs, ceilings, roofing decks, beams and roof	50		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete stone wool insulation stee, for UK	One Click LCA	Stone wool insulation panels, unfaced, generic		P3	
Repairing Caroliny III	bsft3 (j. Lambda=0.037 W(m.K) (One Click LCA)															
A1-A3 Product stage (eecl. W sequestered carbon) A	batt0) (applicable for denation: 100-150 kg/m3 (6.24-8.36 batt0) (Lambda=3.037 W(m.K) (One Click LCA) Waterproof, protective, flexible coating, 1.5 kg/L Lastogum (f Augeburg)	CI 75.1	93.8	92.0	Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete sealarits (silicone and others)	Oekobau dat 2017-I, EPO Wassendichte, faxible Schubschicht PCI Lastogum unter Kesamikbelägen in Dusche und Bad PCI Augsburg GmbH	Waterproof, protective, flexible coating		P7	
A1-A3 Product stage (eac sequestered carbon)			1692	1 1692.1				2.3.Roofs				Desche and Bad PCI Augsburg Giften			\vdash	
sequestered carbon)			1693.	1693.1				2.3.Roots				GPD Eternit Dachatein Heidelberg Eternit Dachatein				
A1-A3 Sequestered Carbor	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 334a42 mm, 2100 kg/m3 (Eternit)	0 75.1	m2 (Floor slabs, ceilings, roofing decks, beams and roof	22.4		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete bles, for UK	EPD Eternit Dachatein Heidelberg Eternit Dachatein Verona Eternit Dachatein Göteborg Eternit Dachatein Kapatadt Eternit AG	Concrete roof tiles		P2	
A1-A3 Sequestered Carbor	nm, 2100 kg/m3 (Elemit) Geotestie, generic, 312 g/m2 (1.02 cortf2), Composition: PP eta ton-excern 56 feb (Dne Click LCA) Store wood insulation panels, unitood, generic, L = 0.037 Wink(R = 2.70 m3KW) (15 42°/m317), 150 aj/m3 (6 24- ba/t3) (applicable for densities: 100-150 kg/m3 (6 24-3.05	75.1			Provide astronomic data barra and and			2.3 Bools				Kapetadi Elemit AG One Click LCA	Geotexdie, generic		-	
A root and annual Carton by	net, non-woven PE feit (One Click LCA) Stone wool insulation panels, unfaced, generic, L = 0.037	74.1			roor man, chings, noing block, owner and root						ties, for UK		and and a second		f+	
A1-A3 Sequestered Carbon	WinK, R = 2.70 m2KW (15 ft2*Fh/BTU), 150 kg/m3 (8.36 bs/ft2) (applicable for densities: 100-150 kg/m3 (8.24-9.36	75.1	In2 0		Floor slabs, ceilings, roofing decks, beams and roof	50		2.3.Roots			Stone wool insulation and concrete store wool insulation	One Click LCA	Stone wool insulation panels, unfaced, generic		Pa	
0	bs/fd/j, Lambds=0.037 Wijm.K) (One Click LCA)											Oxforbasi dat 2017.J. EPO Wassandichta Bayble			\vdash	
A1-A3 Sequestered Carbor	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (F Augeburg)	CI 75.1	in2 (•	Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Wateproofing roofing system incl. insulation and concrete steel, for UK	Oekobau dat 2017-1, EPD Wassendichte, fexible Schubschicht PCI Lastigum unter Kesamikbelägen in Dusche und Bad PCI Augeburg GmbH	Waterproof, protective, flexible coating		P7	
A1-A3 Sequestered Carbon								2.3.Roofs								
	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 334x42 mm, 2100 kg/m2 (Eternit)	0 75.1	1016	101.0	Floor slabs, ceilings, roofing decks, beams and roof	22.4		2.3 Books			Wateproofing roofing system incl. Insulation and concrete des, for UK	EPD Eternit Dachatein Heidelberg Eternit Dachatein Verona Eternit Dachatein Giteborg Eternit Dachatein	Courses and time		~	
·** n	mm, 2100 kg/m3 (Eternit)											Capetadt Elemit AG			Ê.	
A4	Geolestile, generic, 312 g/m2 (1.02 oz/R2), Compositor: PP net, non-wowen PE feit (One Click LCA) Stone wool insulation panels, unfaced, generic, L = 0.037	75.1	n2 0.6	3.0	Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete stee, for UK	One Click LCA	Geotexdia, generic		P7	
	store woo museon panes, unsolo, genero, L = 0.037 WinK, R = 2.70 m3KW (15 82°Fh/BTU), 150 kg/m3 (8.36 ba/R3) (applicable for densities: 100-150 kg/m3 (8.24-9.36	75.1	102 10.	10.4	Floor slabs, ceilings, roofing decks, beams and roof	50		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete Stone wool insulation bles, for UK	One Click LCA	Stone wool insulation panels, unfaced, generic		P3	
E E	bs/fd)), Lambda=0.037 Wi(m.K) (One Click LCA)											Oekobau dat 2017-I. EPD Wassendichte. flexible				
	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (F Averations)	CI 75.1	12 13	4 32	Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Waterproofing roofing system incl. Insulation and concrete bles, for UK Sealants (slicone and others)	Cekobau.dat 2017-1, EPD Wassendichte, fexible Schutzschicht PCI Lastogum unter Keramikbelägen in Dusche und Bad PCI Augsburg GmbH	Waterproof, protective, flexible coating		P7	
A4			116.3	116.3				2.3.Roofs				Dusche und Bad PCI Augsburg GmbH			\vdash	
A5-3	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 334a45 mm, 2100 kg/m3 (Eternit)	0 75.1	m2 9.	2 93	Floor slabs, ceilings, roofing decks, beams and roof	22.4		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete tiles, for UK	EPD Exemit Dachatein Heidelberg Elemit Dachatein Verona Elemit Dachatein Göteborg Elemit Dachatein Kapatad Elemit AG	Concrete roof tiles		P2	
	Geotestile, generic, 312 g/m2 (1.02 gz/f2), Composition: PP	75.1			Floor slabs, ceilings, roofing decks, beams and roof			23.Roofs			Viateroroofing roofing system incl. insulation and concrete	Kapstadt Eternit AG One Click LCA	Geolexille, generic		h	
~	net, non-woven PE feit (One Click LCA) Stone wool insulation panels, unfaced, generic; L = 0.037			10.4	roor name, cellings, rooming below, beams and roof	1					ties, for UK		unconne, genilli		ř-	
A5-3	net, non-wowen PE fait (Dna Click LCA) Stone wool insulation panels, unfaced, generic, L = 0.037 WimK, R = 2.70 mBKW (15 82*PhBTU), 150 kg/m3 (8.26 ba/t3) (applicable for densities: 100-150 kg/m3 (8.24-9.36	75.1	m2 52	52.0	Floor slabs, cellings, roofing decks, beams and roof	50		2.3 Roofs			Waterproofing roofing system incl. insulation and concrete Stone wool insulation tiles, for UK	One Click LCA	Stone wool insulation panels, unfaced, generic		Pa	
ļ į	bs/fd)], Lambda=0.037 Wi(m.K) (One Click LCA)	<u> </u>		l								Oekobau dat 2017-I. EPD Wassandritta KevP*-			⊢	
A53 8	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (I Augeburg)	CI 75.1	m2 5.0	5.00	Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Waterproofing roofing system incl. insulation and concretes steel, for UK	Oekobau dat 2017-1, EPD Wassendichte, fexible Schubschicht PCI Lastigum unter Kesamikbelägen in Dusche und Bad PCI Augeburg GmbH	Waterproof, protective, flexible coating		P7	
AS-3			78.1	78.1				2.3.Roats				Provide Contraction Contraction Contraction			\square	
83 6	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 334a4G mm, 2100 kg/m3 (Eternit)	0 75.1	m2 0	• •	Floor slabs, ceilings, roofing decks, beams and roof	22.4		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete other, for UK	CPD Elemit Dachatein Heidelberg Elemit Dachatein Verona Elemit Dachatein Göteborg Elemit Dachatein Kasatad Elemit AG	Concrete roof tiles		P2	
83 G	Geolestile, generic, 312 g/m2 (1.02 oz.82), Composition: PP net. non-americ PE felt (One Cirk I Cé)	75.5	m2 (Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs	1		Waterproofing roofing system incl. Insulation and concrete Plautic membranes ties, for UK	One Click LCA	Geotextile, generic		P7	
8	net, non-woven PE felt (One Click LCA) Stone wool insulation panels, unfaced, genetic, L = 0.037 WIMK, R = 2.70 m2K/W (15 ft2"Fh/BTU), 150 kg/m3 (8.36														\square	
83 B		75.1	n2 0		Floor slabs, ceilings, roofing decks, beams and roof	50		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete Stone wool insulation ties, for UK	One Click LCA	Stone wool insulation panels, unfaced, generic		P3	
	be/fd)j, Lambda=0.037 W(m.K) (One Click LCA) Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (I	CI 75.1			Floor slabs, ceilings, roofing decks, beams and roof			2.3.Roofs			Waterproofing roofing system incl. insulation and concrete Sealants (silicone and others)	Oekobau dat 2017-1, EPD Wassendichte, fexible	Printered and all a facility and a			
	Augsburg)	75.1	~ · · ·	1	move name, cellings, rooming below, beams and roof	1		1.3 Basis			see, for DK	Oekobau.dat 2017-1, EPO Wassendichte, faxible Schutzschicht PCI Lastingum unter Keramikbelägen in Desche und Bad PCI Augaberg GmbH	mempron, profective, textele coating		r i	
ad 0	Geotextile, generic, 312 g/m2 (1.02 oz/f2), Composition: PP	75.9	57.4		Floor slabs, ceilings, roofing decks, beams and roof			2.3.Roofs 2.3.Roofs			Waterproofing roofing system incl. insulation and concrete Plastic membranes	Om (1931) (A	Geotextile, generic		P7	
t t	net, non-woven PE feit (One Click LCA) Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (F										des, for UK Plastic membranes Watercreofing roofing exitem incl. insulation and concrete	Cekobau.dat 2017-1, EPD Wasserdichte, fexible			\vdash	
84	Augsburg)	CI 75.1			Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Waterproofing roofing system incl. Insulation and concrete deas, for UK	Dekobau dat 2017-1, EPO Wasserdichés, faxible Schutzschicht PCI Lastigum unter Veramikbelägen in Dusche und Bad PCI Augsburg GmbH	Waterproof, protective, flexible coating		P7	
Di			160.9			_		2.3.Roofs		-		CPD Eternit Dachatein Heideberg Eternit Dachatein			\vdash	
са С	Concrete and they due thickness and all the second					22.4		2.3.Roofs	1		Waterproofing roofing system incl. insulation and concrete blex, for UK		Concrete roof tiles	lumper truck, 19 ton capacity, 100% fill ra	#2	
1 1	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 334e42 mm, 2100 kg/m3 (Eternit)	0 75.1		7 10.32											P7	
C2 6	Controlly security 212 alors (102 are BC). Comparison (Fig.	0 75.1 75.1			Floor slabs, ceilings, roofing decks, beams and roof	1		2.3.Roofs			Waterproofing roofing system incl. insulation and concrete bies, for UK	Kapitad Elemit AG One Click LCA	Geolexille, generic	tailer combination, 40 ton capacity, 100% Il rate	r 1	
C2 5	Controlly security 212 alors (102 are BC). Comparison (Fig.				Floor slabs, ceilings, roofing decks, beams and roof	4		23 Roofs			Waterprofing noting system incl. Insulation and concrete Plastic membranes Has, for UK Waterprofing noting system incl. Insulation and concrete Plastic membranes			ll rate		
а а	Controlly security 212 alors (102 are BC). Comparison (Fig.					1					Waterproofing roofing system incl. insulation and concrete Stone wool insulation bles, for UK	One Click LCA	Geolexille, generic Stone wool insulation panels, unfaced, generic	haller contribution, 40 ton capacity, 100% Il rate humper truck, 19 ton capacity, 100% fill ra	#3	·
	Concelle roof bine, Aug. thickness per n2: 22.4 mm, 324642 mm, 2106 bighing (Elevent) catacolone, percent, 21.9 graph (1.67 carticity, Computation, PF text, con-executin PE field (Data Click (2.04) Dates and Tandations panels, withouts, generics, L = 0.037 Wittins, PA = 2.37 mGWWW (1.51 ET WHITE), 153 bighing (3.84 and 201) oppications from the constants: 103-05 oppications for 24-04 and bindling scheduler and the constants: 103-05 oppications for 24-04 and 2010 bindling (3.84 bindling). Linearized (3.84 bindling), Linearized (3	75.1	n2 0.04	e 0.00 0 1.62	Floor slabs, cellings, roofing decks, beams and roof	50		2.3.Roofs 2.3.Roofs			Waterproofing roofing system incl. insulation and concrete Stone wool insulation bles, for UK	One Click LCA	Stone wool insulation panels, unfaced, generic	linate Jumper buck, 19 lon cagacity, 100% fill ra	P3 97	
	Geotestie, generic, 312 ghr2 (1.02 corti2), Composition: PP net, non-avean DE fait (Dna Click LCA) Store wool invalidation paneta, unificad, generic, L = 0.037 Winki, R = 2.70 mXWW(5 £27%BTU), 150 kg/m3 (6.24-2.05 ba/t2) (applicable for densitian: 100-150 kg/m3 (6.24-2.05 ba/t2), Lambdar-0.037 W(mA) (Dna Click LCA)		n2 0.04	e 0.00 0 1.62	Floor slabs, ceilings, roofing decks, beams and roof	1 50 1		23 Roofs			Waterproofing roofing system incl. insulation and concrete Stone wool insulation bles, for UK	One Click LCA Dekobaucata 2017-1, EPO Wassendichte, fexible Schutzschicht PCI Lastiguru soher Kenzmächeligen in Dauche und Bach PCI Algoburg GmbH		ll rate	#3 #7	
	Geoletalia, gueraric, 316 gibrd (1 do carrilo), Composition FP eta tom speano FE de li Orac Cida LLOL State and insulation paneta, anticad, gueraric, 1 + 0 0.017 Winker, R + 2-20 and Wink (1 do 217-MBL), 105 gibrd (1 26 4-0.03 bahd)) papetaalis for denaties: 100-150 gibrd (1 26 4-0.03 bahd)) papetaalis for denaties: 100-150 gibrd (1 26 4-0.03 bahd)), antiderbord 20 Wijmk () (Orac Cida LLON) Winkeyroot, pretective, field/e coating, 1 5 kg/l, Lastopum (I Angebrag)	75.1 75.1 CI 75.1	m2 004 m2 0.8 m2 0.1 m2 0.1 42	e 0.00 0 1.62	Roor slabe, callings, roofing decks, beams and roof Roor slabe, callings, roofing decks, beams and roof Roor slabe, callings, roofing decks, beams and roof	1		2.1 Roofs 2.1 Roofs 2.1 Roofs 2.1 Roofs 2.1 Roofs			Hangsoulder profile prefer Ind. Installation and conceals Status and Industry Reagranding purply prefers Ind. Installation and conceals Status (alloces and others) Status (alloces and others)	Cree Click LCA Dekobau: dei 2017-1, EPD Wassendichte, faschle Schutzschicht PCI Lastiguer unter Karamäbeligen in Dauche und Bahr DCI Augsbaug Greithi EPD Eisenit Bahr DCI Augsbaug Greithi EPD Eisenit Bahr Dekotelen Heldelberg Eisenit Bachetein	Shone wool insulation panels, unfaced, generic Waterproof, protective, Sexible coaling	ll rate humper buck, 19 ton capacity, 100% fill na humper buck, 19 ton capacity, 100% fill na	#2 #7	
	Castalistis, parvic, 1-2 publ. (1 Country), Composition PP Castalistis, parvic, 1-2 publ. (1 Country), Composition PP Store and Intelliating panels, printeed, gammar, L = 0.037 (1 Country), 2 P Country, 10 Star Thui, 10 Lu, 10 gammar, 2 P Country, 10 Star Thui, 10 Lu, 10 Star Thui,	75.1 75.1 ACI 75.1	400 000 000 000 000 000 000 000 000 000	6 0.00 3 1.60 7 0.32 9 12.40 9 1.22	Roor slabe, cellings, molfing decks, beams and noof Floor slabe, cellings, molfing decks, beams and noof Floor slabe, cellings, molfing decks, beams and noof Floor slabe, cellings, molfing decks, beams and noof	1		2.1 Roofs 2.1 Roofs 2.1 Roofs 2.1 Roofs 2.1 Roofs 2.1 Roofs			Interpretend round gradem tech Insidem and concess. Reare word insulation. Interpreting round gradem tech Insidem and concess. Reare tool. Reare tool. Reare provide gradem tech. Insidem and concess. Reare tool. Reare tool. Rear	One Click LCA Celobau de 20174, EPG Wassendcha, feuble Schutzuchch PC Lastigure unter Kosmiskelligen in Such auf fast PC Auguteg (smb1 PD Dentri Exchutsen Neidellerg Dant? Duchaeis Worse Einer Exchutsen Götellorg Einer Exchutsien Kapatel Einer A.G.	Stone wool Insulation panels, unfaced, general: Makeproof, prodective, feasible cauling Concrete roof files	II rate humper truck, 19 ton capacity, 100% EI ra humper truck, 19 ton capacity, 100% EI ra concrete recycling, concrete multing	#7 P2	
	Geoletalia, gueraric, 316 gibrd (1 do carrilo), Composition FP eta tom speano FE de li Orac Cida LLOL State and insulation paneta, anticad, gueraric, 1 + 0 0.017 Winker, R + 2-20 and Wink (1 do 217-MBL), 105 gibrd (1 26 4-0.03 bahd)) papetaalis for denaties: 100-150 gibrd (1 26 4-0.03 bahd)) papetaalis for denaties: 100-150 gibrd (1 26 4-0.03 bahd)), antiderbord 20 Wijmk () (Orac Cida LLON) Winkeyroot, pretective, field/e coating, 1 5 kg/l, Lastopum (I Angebrag)	75.1 75.1 CI 75.1	ng 600 ng 61 ng 60 ng 60	2 0.00 3 1.62 7 0.32 8 112.43 9 112.43 2 41.43	Floor table, ceilings, mofting discle, beams and not floor table, ceilings, mofting discle, beams and not	1 50		2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs			Interpretend round gradem tech Insidem and concess. Reare word insulation. Interpreting round gradem tech Insidem and concess. Reare tool. Reare tool. Reare provide gradem tech. Insidem and concess. Reare tool. Reare tool. Rear	Dra Cick LCA Dra Cick LCA Databaschi 2011. LPD WasserSchla, finoble Schucht und PC Langgen unter Kennabelligen in Such und Ber Dr. Angling Greek Die Dereit Dachtein Verona Diern Bachtein Götelborg Diern Bachtein Verona Diern Bachtein Götelborg Diern Bachtein Keytels Blern AG Dre Cick LCA	Stone wool Insulation panels, unfaced, general: Makeproof, prodective, feasible cauling Concrete roof files	ll rate humper buck, 19 ton capacity, 100% fill na humper buck, 19 ton capacity, 100% fill na	P2 P7	
	Classifier, gaves, 212 gaves, 124	75.1 75.1 *CI 75.1 0 75.1 75.1	eg 000 eg 01 eg 00 eg 0	0 0.00 1 1.62 7 0.22 9 1144 9 1124 9 1122 9 112 9 112 112 112 112 112 112 112 112 112 112	Floor shale, callings, rendfrig decks, baans and root Floor shale, callings, rendfrig decks, baans and root	1 50 1 22.4 1		2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 3.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs			Integranding melang selawa kata kadi karal karana kata wa kadi kada kata kata kata kata kata kata kata	Dra Cick LCA Dra Cick LCA Databaschi 2011. LPD WasserSchla, finoble Schucht und PC Langgen unter Kennabelligen in Such und Ber Dr. Angling Greek Die Dereit Dachtein Verona Diern Bachtein Götelborg Diern Bachtein Verona Diern Bachtein Götelborg Diern Bachtein Keytels Blern AG Dre Cick LCA	Store woll insulation panels, unfaced, generic Waterproof, protective, lexible coating Concrete roof like Solutedle, generic	II rate humper truck, 19 ton capacity, 100% EI ra humper truck, 19 ton capacity, 100% EI ra concrete recycling, concrete multing	P2 P7	
C2 A	Ganantia, parres, 110 grafi (110 grafic, Consumino FP Ganantia, parres 110 grafi (110 grafic), 110 grafic), 110 grafication (110 grafic), 110 grafic), 110 grafication (110 grafic), 110 grafic), 110 grafic), 110 grafic (110 grafic), 110 gra	75.1 75.1 10 75.1 0 75.1 0 75.1		e 0 000 2 144 7 0 32 2 142 2 142 1 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flour dalas, salings, moting dastas, basera and real Flour dalas, salings, moting dastas, basera and real	1 50 1		2.2 Soute 2.3 Soute 2.3 Soute 2.3 Soute 2.3 Soute 2.3 Soute 2.3 Soute 2.3 Soute 2.3 Soute			Harppende produktion kandelich and samme der Anselden Harppende produktion kandelich and samme der Anselden Harppende produktion kandelich and samme der Anselden kandelich Harppende produktion kandelich and samme der Anselden kandelich and samme der Anselden kandelich	Des Clos LCA Setabascal 2011, LCPD Warsendofes, fendlar Sandra und Eler Di Augebra Graffe Di Daniel Gonzalen Galaniez Daniel Sandra worn Banet Danielan Galaniez Daniel Sandra Marcia Eler Ala Sandra La Colorizza de Coloradore de Coloradore Elevente Danielan Feldularg Daniel Coloradore Sandra Color Danielan Feldularg Daniel Coloradore Elevente Danielan Feldularg Daniel Coloradore Elevente Danielan Feldularg Daniel Coloradore Elevente Danielan Feldularg Daniel Coloradore Sandra Cherrol Danielan Feldularg Daniel Coloradore Sandra Elevente Alexander Sandra Coloradore Sandra Elevente Alexander Sandra Coloradore Sandra Cherrol Danielan Sandra Che	Reve wait insidein pante, urbest, genetic Marpran', potectine, feedale austrig Conceste nort lites Genetate, genetic Economic nort lites	II rate humper truck, 19 ton capacity, 100% EI ra humper truck, 19 ton capacity, 100% EI ra concrete recycling, concrete multing	#1 #7 P2 P7 P2	
C2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Generality areas, 112 (pp. 1112) and 112, constraints FP on anomal FPC Info (2016 ALSA), 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) a	75.1 75.1 *CI 75.1 0 75.1 75.1		e 0 000 2 144 7 0 32 2 142 2 142 1 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Floor shale, callings, rendfrig decks, baans and root Floor shale, callings, rendfrig decks, baans and root	1 50 1 22.4 1 22.4		2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 3.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs 2.3 Roofs			Integranding melang selawa kata kadi karal karana kata wa kadi kada kata kata kata kata kata kata kata	One Clock LCA Selection and 2017-1, CPO Wessendorstei, feusible Extractricht PC Lanzgaur under Konnethaltigen in Jacket auf das Erd Angelange Greist PPO Exercit Buchteren Hausberg Einen Exchesio Neura Damit Dochstein Koldberg Damit Buchstein Kestella Einer AG Dan Clock LCA EPO Exercit Buchstein Haldberg Einen Exchesion	Store woll insulation panels, unfaced, generic Waterproof, protective, lexible coating Concrete roof like Solutedle, generic	II rate humper truck, 19 ton capacity, 100% EI ra humper truck, 19 ton capacity, 100% EI ra concrete recycling, concrete multing	013 077 077 077 072 077	
C2 A	Generality areas, 112 (pp. 1112) and 112, constraints FP on anomal FPC Info (2016 ALSA), 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 113 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 112 (pp. 112) and 114 (pp. 112) and 112 (pp. 112) a	75.1 75.1 10 75.1 0 75.1 0 75.1		e 0 000 2 144 7 0 32 2 142 2 142 1 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flore dales, cellege, meller glebels, Saaren and eur Flore dales, sellege, norleg daels, Saaren and eur Flore dales, daeling, norleg daels, Saaren and eur Flore dales, daeling, norleg daels, Saaren and eur	1 50 1 22.4 1 22.4 1		1.3 Florar 1.3 Fl			Lingung ang waters to Mandata and samon da sa sa. See and Sakadata Lingung ang waters to Mandata and samon da sa sa. See and Sakadata See and Sakadata See and S	Ser Cisia LCA Statutura (2017) Cliniformativity, Installa Statutura (2017) Cliniformativity, Installary In- Standard Mirk (2017) Cliniforma (2017) Statuta (2018) Statutura (2017) Cliniforma Warran (2017) Cliniforma (2017) Cliniforma Warran (2017) Cliniforma Warra	Rev weri reading press, wheek gowsi: Nakspool policies, bask oorlog Carcels of the Carcels of the Carcels of the Carcels of the	inee Jamper Hack, 19 Ion capacity, 100% ER in Jamper Hack, 19 Ion capacity, 100% ER in Concette Hospitelity, concette crusting VC products inderestion	#3 #7 P2 P7 P7 P7	
C2 A	Consists parts, 12 grad 10 gr	75.1 75.1 10 75.1 0 75.1 0 75.1		e 0 000 2 144 7 0 32 2 142 2 142 1 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flour dalas, salings, moting dastas, basera and real Flour dalas, salings, moting dastas, basera and real	1 50 1 22.4 1 22.4 50		2.2 Souts 2.2 Souts 2.3 Souts 2.3 Souts 2.3 Souts 2.3 Souts 2.3 Souts 2.3 Souts 2.3 Souts 2.3 Souts			Harppende produktion kandelich and samme der Anselden Harppende produktion kandelich and samme der Anselden Harppende produktion kandelich and samme der Anselden kandelich Harppende produktion kandelich and samme der Anselden kandelich and samme der Anselden kandelich	Des Clos LCA Setabascal 2011, LCPD Warsendofes, fendlar Sandra und Eler Di Augebra Graffe Di Daniel Gonzalen Galaniez Daniel Sandra worn Banet Danielan Galaniez Daniel Sandra Marcia Eler Ala Sandra La Colorizza de Coloradore de Coloradore Elevente Danielan Feldularg Daniel Coloradore Sandra Color Danielan Feldularg Daniel Coloradore Elevente Danielan Feldularg Daniel Coloradore Elevente Danielan Feldularg Daniel Coloradore Elevente Danielan Feldularg Daniel Coloradore Sandra Cherrol Danielan Feldularg Daniel Coloradore Sandra Elevente Alexander Sandra Coloradore Sandra Elevente Alexander Sandra Coloradore Sandra Cherrol Danielan Sandra Che	Reve wait insidein pante, urbest, genetic Marpran', potectine, feedale austrig Conceste nort lites Genetate, genetic Economic nort lites	II rate humper truck, 19 ton capacity, 100% EI ra humper truck, 19 ton capacity, 100% EI ra concrete recycling, concrete multing	P7 P7 P7 P7 P7 P7	
C2 A	Generating across 10 g and 10	75.1 75.1 0 75.1 0 75.5 75.5 75.5	MAL MAL MAL	e 0 000 2 144 7 0 32 2 142 2 142 1 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 50 1 22.4 1 22.4 50		13.Badra 13.Badra 13.Badra 13.Badra 23.Bad			Anspection generation structures and uncertain s	Ser Cisia LCA Senden LCA 2017, BPC Networkships, Induktion Network and Intel Chargenge uter Investellations in Sender and BPC Angeleng Getat USE Desem Schwein Konkellung Einer Danielle Neue Schwei Einsteinen Teilensteil Bernit Danielle Der Cisia LCA Der Cisia LCA Der Cisia LCA Der Cisia LCA Der Cisia LCA Der Cisia LCA	Rome excit installing posits, reflected generality Reserpent generation, Realite anothy Consols car filter Consols car filter C	In real Image Hack, 19 bin capacity, 100% BI in Image Hack, 100% BI in	P2 P7 P2 P7 P7 P7 P3	
C2 A	Consists parts, 12 grad 10 gr	75.1 75.1 10 75.1 0 75.1 0 75.1	MAL MAL MAL	e 0 000 2 144 7 0 32 2 142 2 142 1 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flore dales, cellege, meller gleiche, Saaren and eur Flore dales, sellege, meller gleiche, Saaren and eur Flore dales, dalege, meller gleiche, Saaren and eur Flore dales, dalege, meller gleiche, Saaren and eur	1 50 1 22.4 1 22.4 1 50 50		1.3 Florar 1.3 Fl			Lingung ang waters to Mandata and samon da sa sa. See and Sakadata Lingung ang waters to Mandata and samon da sa sa. See and Sakadata See and Sakadata See and S	Ser Disk LCA Section LCA 2017, 1975 Westerhöhen, Norder Restructure 1970 Langern uter Annehmalter Bandes and Herz Supplier, Section Section LCA 2017, 1975 Section LCA 2017, 1975 Kannet Davie X.J. Sec Call LCA Ser Davie LCA 2017, 1975 Section LCA 2017, 1975 Section LCA 2017, 1975 Section LCA 2017, 1975 Section LCA 2017, 1975 Section LCA 2017, 1975 Section LCA 2017, 1975 Sect	Rev weri reading press, wheek gowsi: Nakspool policies, bask oorlog Carcels of the Carcels of the Carcels of the Carcels of the	inee Jamper Hack, 19 Ion capacity, 100% ER in Jamper Hack, 19 Ion capacity, 100% ER in Concette Hospitelity, concette crusting VC products inderestion	P2 P7 P2 P7 P2 P7 P7 P7	

C4-balancing		75.18m2		© Floor slabs, ceilings, roofing decks, beams and roof	50		2.3.Roofs		Waterproofing roofing system incl. insulation and concrete siles, for UK	Stone wool insulation	One Click LCA	Stone wool insulation panels, unfaced, generic		Pa	
	belt0 (), Lambda=0.027 W(m.K) (One Click LCA)						2.3.Roofs			Sealarts (slicore and others)	Oekobau dat 2017-I, EPD Wasserdichte, flexible			+	
C4-balancing	Naterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Nageburg)	75.18m2	0	0 Floor slabs, callings, roofing decks, beams and roof	1		2.3.Roofs 2.3.Roofs		Waterproofing roofing system incl. insulation and concrete tiles, for UK	Sealarts (slicone and others)	Schutzschicht PCI Laetogum unter Keramikbelägen in Dusche und Bad PCI Augeburg GmbH	Waterproof, protective, flexible coating		P7	
D Co-catancing	Concrete roof tiles, Aug. thickness per m2: 22.4 mm, 334x420 nm, 2100 kg/m3 (Eternit)	75.18m2	-78.86	-157.0 Floor slabs, ceilings, roofing decks, beams and roof	22.4		2.1.Roofs		Waterproofing roofing system incl. insulation and concrete steer, for UK	Other precast concrete products	EPD Elemit Dachatein Heidelberg Etemit Dachatein Verona Etemit Dachatein Göteborg Etemit Dachatein	Concrete roof tiles		P2	
-		75.10m2	-39.04	-78.08 Floor slabs, ceilings, roofing decks, beams and roof			23.Roofs		Natemenetics metion waters incl. insulation and concrete		Kapetadi Elevit AG One Click LCA	Geolexille, generic			
0	Sectestile, generic, 312 g/m2 (1.02 oz/f0), Composition: PP ret, non-woven PE feit (One Click LCA)	7.4.19194	-08.04	The set room sease, carrings, rooming server, searche and room			23.Roofs 23.Roofs		tiles, for UK	Passa menorana		Secondary General			
A1-A3 Product stage (eecl. C	Quarter turn wooden staincese, width: 1.2 m, 90 kg/m (One 6	5.5m	2196.5	2273.7 254.27 Other structures and materials		Staircase	2.4.1.Star			Plain wood/timber (softwood and hardwood)	One Click LCA	Quarter tum wooden staircase		PS	4
sequestered carbon) A1-A3 Sequestered Carbon	LDA) Suanter tum wooden staincase, width: 1.2 m, 98 kg/m (One I CA)	5.5m	-990	-990 Other structures and materials		Staircase	24.1.Stair			Plain wood/timber (softwood and hardwood)	One Click LCA	Quarter tum wooden staitcase		P5	
м	CA) Castler turn wooden staincase, width: 1.2 m, 98 kg/m (One 6 CA)	5.5m	15.46	15.40 Other structures and materials		Staircase	24.1.Stair			Plain wood/timber (softwood and hardwood)		Quarter turn wooden staircase		PS .	
453	Quarter turn wooden staincase, width: 1.2 m, 98 kg/m (One I .CA)	5.5m	7.58	7.58 Other structures and materials		Staircase	24.1.Stair			Plain wood/limber (softwood and hardwood)		Quarter turn wooden staècase		PS .	4
83	CA) CA) Quarter turn wooden staincase, width: 1.2 m, 98 kg/m (Che I Quarter turn wooden staincase, width: 1.2 m, 98 kg/m (Che I	5.5m	0	© Other structures and materials			24.1.5tair 24.1.5tair			Plain wood/timber (softwood and hardwood)	One Click LCA One Click LCA	Quarter tum wooden staircase	Trailer combination, 40 ton capacity, 1001	PS 75 PS	4
2	CA) Suarter turn wooden staincase, width: 1.2 m, 98 kg/m (One I	55n 55n	1.00	2.00 Other structures and materials 6.00 Other structures and materials			24.1.Stair 24.1.Stair				One Click LCA	Quarter turn wooden staircase Quarter turn wooden staircase	Si rate	- 195 4085	
C2-balancing	.CA) Quarter turn wooden staincase, width: 1.2 m, 98 kg/m (One I	5.5m	990	990 Other structures and materials			24.1.5tair				One Click LCA	Quarter turn wooden staticase		P5	
0	LDA) Suanter tum wooden staincase, width: 1.2 m, 98 kg/m (One I CA)	5.5m	-100.05	-361.68 Other structures and materials		Staircase	24.1.Stair			Plain wood/timber (softwood and hardwood)		Quarter tum wooden staitcase		P5	
			385.3	306.33			24.1.5m/				Oekobau dat 2017-1, EPD Mineralische Werkmörtel:				
A1-A3 Product stage (eecl. A sequestered carbon)	oropensee, 1500 kg/m3, 6/O coverage: >1500 kg/m3 (/WM)	10.15m2	35.65	35.65 External walks and facade	10		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Mortar (masorry/bricklaying)	Mauemõrtel - Vormauemõrtel Mõrtel mit besonderen Eigenschaften Industrieverband WerkMörtel e.V. (IMM) Oskobau dat 2017-L EPD Mineralische Werkmörtel:	Maxony mortanitacing wall mortanimortan with special properties		P2	4
A1-A3 Product stage (eecl. sequestered carbon)		30.362m2	106.65	106.02 External walks and facade	10		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner lead, U-value 0.18	Mortar (masorrylbricklaying)	Dekobau dat 2017-I, EPD Mineralische Werkmörtei: Mauermörtei - VormauermörteilMörtei mit besonderen Eigenschaften Industrieverband WerkMörtei e.V. (WM)	Masony motar/lacing wall motarimotar with special properties		P2	
A1-A3 Product stage (eecl. sequestered carbon)	Red brick, average production, UK, 215 mm x 102.5 mm x 65	157.64m2	5110.00	5110.80 External walks and facade	102.5	60 bricks (65 mm x 215 mm x 102 mm) oer m2	2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Brick common clau brick	Eigenscharten Inclumeverband werekkons e.v. (Intel EPD BDA Generic Brick, The Brick Development Association	Red brick, average production, UK		P11	
sequestered carbon) A1-A3 Product stage (eecl.	ECA) Ltd (2019)) Ightweight concrete block, with expanded clay appregate,														
sequestered carbon)		177.65m2	7667.86	7667.86External walks and facade	215	440mm x 215mm x 215mm (10 blocks per m2)	2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Availed Autoclaved concrete products	One Click LCA	Lightweight concrete block, with expanded city aggregate, gene	6c	P2	-
A1-A3 Product stage (eecl.	Nink, R = 2.70 m2KW (15 82*Fh/BTU), 150 kg/m3 (8.36 he/P3) isonicable for densities: 100,150 kn/m3 (6.34,2.35	188112	5532.95	5532.95External walls and facade	150		2.5.External envelope including roof finishes		Manonry cavity wall with partial fill and aircrete block + plasterboard invertiant il Looks 0.18	Stone wool insulation	One Click LCA	Stone wool insulation panels, unfaced, generic		Pa	
A1-A3 Product stage (sect. sequestered carbon)	berto) (appectable for denisteal: 100-150 kg/ml (k.24-4.36 behtő)(, Lambdar-0.007 W(m.K) (One Click LCA) gypsem plaster board, regular, genetic, 65-25 mm (0.25-0) n), 10.725 kg/m2 (2.20 be/t2) (for 12.5 mm/0.49 in), 858 kg/m3													+'	1
A1-A3 Product stage (eec) sequestered carbon) A1-A3 Product stage (eec). 0	n), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 858 kg/m3 53.6 ba/t3) (One Cick LCA) Speam plaster, 1100 kg/m3 (Bundesverband der Sizeindustrie)	188m2	501.96	521.98 External walls and facade	12.5		2.5.External envelope including roof finishes		Masonry cavby wall with partial fill and alcosts block + plasterboard inner leaf, U-salas 0.18 Masonry cavby wall with partial fill and alcosts block +	Regular gypsum board	One Click LCA Dekobau dat 2017-1, EPD GIPSPUTZ Bundesverband o	Gypeum plaster board, regular, generic		P232	4
sequestered carbon)	Sypsum plaster, 1100 kg/m3 (Bundesverband der Speindustrie)	188m2	8.5	84.57 External walls and facade	3		2.5 External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Oypsum plaster (interior applications)	Oekobau dat 2017-1, EPD GIPSPUTZ Bundesverband o Gipsindustrie e.V.	5 _{ypeun plaster}		P232	
A1-A3 Product stage (eac sequestered carbon)			19120.58	19120.58			2.5.External envelope including roof finishes					<u> </u>			
A1-A3 Sequestered Carbor	ifasonry mortanifacing wall mortanimortar with special properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WMA)	10.15m2	•	d External walks and facade	10	-	2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner lead, U-value 0.18	Mortar (masorrybricklaying)	Oekobau dat 2017-I, EPD Mineralische Werkmödel: Mauermödel - Vormauermödel/Mödel mit besonderen Eisenschaften Industrieverband WerkMödel e.V. (WMI	Masony motarifacing wall motarimotar with special properties		P2	
		30.363m2		di External walls and facade	10		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf. U-value 0.18	Vortar (masorrybricklavino)	Eigenschaften Industrieverband WerkMörteil e.V. (WM) Dekobau dat 2017-1, EPD Mineralische Werkmörteil	Masony morter/facing wall morter/morter with special properties		-	
					10						Maxemòtel - Vornaxemòtel/Mótel nit besonderen Egenschaften Industrieverband WerkMötel e.V. (IWM) EPD BDA Generic Brick, The Brick Development			f_	
A1-A3 Sequestered Carborn	nm, 2.13 kglunit, 1485 kg/m3 (Brick Development Association BDA) Ltd (2019))	157.64m2	0	0 External walks and facade	922.5	60 bricks (65 mm x 215 mm x 102 mm) per m2	2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Brick, common clay brick	Association	Red brick, average production, UK		P33	4
A1-A3 Sequestered Carborg	BDA) Ltd (2019)) ightweight concrete block, with expanded clay apprepate, preser, d50 kg/m3 (40.6 ba/f0), 18 kg/block (20.7 ba/block), brid hold bird man (20.0 ba/f0), 02 ba/block (20.7 ba/block),	177.85m2	•	© External walks and facade	215	640mm x 215mm x 215mm (10 blocks per m2)	2.5 External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner lead, U-value 0.18	Aerated/Autoclaved concrete products	One Click LCA	Lightweight concrete block, with expanded clay aggregate, gene	6c	P2	
	0.5x0.3x0.185 mm (0.019x0.012x0.007 in) (One Click LCA) Store wool Insulation panels, unfaced, generic, L = 0.037 WinK, R = 2.70 m2K/W (15.82*Fn/BTU), 150 kg/m3 (8.36 bst/b) (asplicatilis for densities: 100-150 kg/m3 (8.34-3.06			0 External walks and facade			2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircreis block + plasterboard inner lead, U-value 0.18	Stone wool insulation	One Click LCA	Stone wool insulation panels, unfaced, generic		1	
A1-A3 Sequestered Carbor	balt3) (applicable for densities: 100-150 kg/m3 (6.24-9.36 balt3)), Lambda=0.037 W/m X) (One Click LCA)	100112	0	d External walks and facade	150		2.5.External envelope including roof finishes			Stone wool insulation	One Click LCA	Stone wool insulation panels, unfaced, generic		Pa	
A1-A3 Sequestered Carborn	berta ji Jappezale kir dentinei: 100-150 kg/m3 (6.244.36 bertā) (J. Lambérd-0.07 Wijm-Kr) (Char Click LCA) Sypsem plaster board, regular, genetic, 6.5-25 mm (0.25-0.40 n), 107.25 kg/m2 (2.20 ba/H2) (for 12.5 mm/0.49 kn), 656 kg/m3 15.6 bertiliti (J. 100-101)	100112	0	0 External walks and facade	12.5		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner lead, U-value 0.18	Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic		P232	
A1-A3 Sequestered Carbor	53.6 bx/t3) (One Click LCA) Syssum plaster, 1100 kg/m3 (Bundesverband der Sipsindustrie)	100+12	0	0 External walks and facade	3		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Gypsum plaster (interior applications)	Oekobau dat 2017-1, EPD GIPSPUTZ Bundesverband o Gipsindustrie e.V.	Sypeum plaster		P232	4
A1-A3 Sequestered Carbon							2.5.External envelope including roof finishee	1							
	Masonry mortaeffacing wall mortae/mortar with special properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WM)	10.15112	2.92	2.92 External walls and facade	10		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner lead, U-value 0.18	Mortar (masorrylbricklaying)	Dekobau dat 2017-1, EPD Mineralische Werkmörteit Mauermörtei - Vormauermörteil Mörtei mit besonderen Prozestellen lede seite schoeder Werkhörteil - V. (1918)	Masony motar/lacing wall motarimotar with special properties		P2	
		30.363m2	472	8.72 External walks and facade	10		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block +	Vortar (masorrythricklavino)	Oekobau dat 2017-1, EPD Mineralische Werkmörtei: Mauermörtei - Vormauermörtei/Mörtei mit besonderen	Maxony motar/facing wall motarimotar with special properties		P2	
-	and both in more employing 100 Alf and a 100 from a f								plasterboard inner leaf, U-value 0.18 Masonry cavity wall with partial fill and aircrete block +		Eigenschaften Industrieverband WerkMörtei e.V. (WM) EPD BDA Generic Brick, The Brick Development			-	
		157.64m2	459.67	452.67 External walks and facade	922.5	60 bricks (65 mm x 215 mm x 102 mm) per m2	2.5.External envelope including roof finishes		plasterboard inner leaf, U-value 0.18	Brick, common clay brick	Association	Red brick, average production, UK		Paa	
	Jphweight concrete block, with expanded clay aggregate, penetic, 650 kg/m3 (40.6 bs/t3), 18 kg/block (39.7 bs/block), 0.5x0.3x0.185 mm (0.019k8 012x0.007 in) (One Click LCA)	177.85m2	714.25	714.22 External walks and facade	215	640mm x 215mm x 215mm (10 blocks per m2)	2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Aerated/Autoclaved concrete products	One Click LCA	Lightweight concrete block, with expanded clay aggregate, gene	6c	P2	:
	Stone wool insulation panels, unfaced, generic, L = 0.037 Mimit: P = 2.70 m/26/W/155 #212b/BTID: 150 kolm1/B-36		8.9	81.04External walks and facade			2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircreis block + plasterboard inner leaf, U-value 0.18	Stone wool insulation	One Click LCA	Stone wool insulation panels, unfaced, generic			
~	bs/t3) (applicable for densities: 100-153 kg/m3 (6.24-9.35 bs/t3)(, Lambda=0.037 W(m.K) (One Click LCA)			ET OFFICIER WAR AND INCOME	1.00							and the second			
м -	bit Oppgebater to wateria. Do tight (p. 244.57 Beta)(), Landerd 0.07 W(m. K) (Das Click (LGA) Oppson plaster boad, regular, generic, 6.5-25 mm (0.25-0.8 n), 10.255 kpim2 (2:20 bat02) (for 12.5 mm/0.49 in), 656 kpim3 35 d bat03) (Das Click (LGA).	100112	38.63	38.63 External walls and facade	12.5		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Regular gypeum board	One Click LCA	Gypeum plaster board, regular, generic		P232	1
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1253 1	properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WM)		1.50		10						Mauermörtel - Vormauermörtel/Mörtel mit besonderen Eigenschaften Industrieverband WerkMörtel e. V. (WM) Debohau det 2017JJ EDD Mouralische Werkmörter			P2	
A53	soperses, 1500 kg/m3, 6PD coverage: >1500 kg/m3 (rWM)	30.362+2	4.67	4.67 External walls and facade	10		2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aircrete block +	Mortar (masonry/bricklaying)	In contrast of the second state and the second second	Masonry mortan/facing wall mortanimortar with special properties			
453	Red brick, average production, UK, 215 mm x 102.5 mm x 65 mm, 2.13 kglunit, 1485 kg/m3 (Brick Development Association	157.64m2	338.95	238.92 External walks and facade	102.5	60 bricks (65 mm x 215 mm x 102 mm) per m2	2.5.External envelope including roof finishes		Masonry cavity wall with partial fill and aincrete block + plasterboard inner leaf, U-value 0.18	and a feature becoming	Eigenschaften Industrieverband WerkMörtel e.V. (IWM)	easing increasing was not a more and special properties		P2	
453	BDA) Ltd (2019))	177.65m2					2.5 saternal envelope including root trisines				Mauemone - vomauemonendone ni besoneren Egenschaften Industrieverband WerkMone e.V. (WM) EPD BDA Generic Brick, The Brick Development Association	Red brick, average production, UK		P2 P33	
F	prieric, 650 kg/m3 (43.6 Exitt3), 18 kg/block (34.7 Exiting), 3540 340 185 mm (0.019x0012x0.007 in) (One Click LCA)		14.0	64 67 External walks and formula		Allows v 215mm v 215mm /10 blocks71				Brick, common clay brick	EPD BDA Generic Brick, The Brick Development Association	Red brick, average production, UK	-	P2 P33	
		177.8082	84.63	64.63 External walls and facade	215	640mm x 215mm x 215mm (10 blocks per m2)	2.5.External envelope including roof finishes		Masonry cavity wal with partial fill and alcosets block + plasterboard inner lead, Li-sake 0.18 Masonry cavity wal with partial fill and alcosets block + plasterboard inner lead, Li-sake 0.18		Egenschaften Industrieverband WerkMönie V. (WM) EPO BDA Generic Brick, The Brick Development Association Cree Click LCA		62	P2 P30 P2	
453	Althe wood insulation panels, untropid, generic, L = 0.037 Minik, R = 2.70 m2K/W (15 ft2 "FNBTU), 150 kg/m3 (8.36 Minik, R = 2.70 m2K/W (15 ft2 "FNBTU), 150 kg/m3 (8.36	100002	84.63 294.65	64.02 External walks and facade	215	440mm x 215mm x 215mm (10 blocks per m2)			Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.18	Brick, common clay brick	EPD BDA Generic Brick, The Brick Development Association	Red brick, average production, UK	к.	P2 P33 P2 P3	
453	Althe wood insulation panels, untropid, generic, L = 0.037 Minik, R = 2.70 m2K/W (15 ft2 "FNBTU), 150 kg/m3 (8.36 Minik, R = 2.70 m2K/W (15 ft2 "FNBTU), 150 kg/m3 (8.36	107.188m2 188m2		394.62 External walks and facade	215	440mm x 215mm x 215mm (10 blocks per m2)	2.5 External envelope including roof finishes		Matery a woly ward with partial fill and instruction block - plantinetic from Intel (Li-stand 6.18) Matery and why ward with partial fill and airvenis block - plantineticaed inorm intel U-stand 6.18 Matery woly ward with partial fill and airvenis block - phantineticaed inorm intel (U-stand 6.18)	Brick, common clay brick Austind Autoclayed concrete products Stone wood insulation	EPD BDA Garenic Birk, The Brick Development Association One Olick LCA	Red bride, average production, UK Lightweight concrete block, with expanded clay apgregate, game tome wool insulation panels, unfaced, generic	к 	P2 P33 P2 P3 P2	
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453 453 453	Anex, R. = 2.30, acc609 (15) 97153070, 150 kgrol (2.3) behavior of the analysis of the acceleration of the	177.00m2 188m2 188m2	204.62	394.62External walks and facade	215 150 12.5 3		2.5 External envelope including roof finishes		Meaning many ward with predict ID and around black maintained ward in which C-shared S-10 Meaning Meaning many ward with predict ID and arounds black - analistication that (C-shared S-10 Meaning Meaning many ward with predict ID and arounds black - shared ward ward in which C-shared S-10 Meaning many ward ward in which ID and arounds black - maintained ward in which C-shared S-10 Meaning Meaning many ward with predict ID and arounds black - maintained ward in which C-shared S-10 Meaning Meaning many ward with predict ID and arounds black - Meaning many ward ward predicted ID and arounds black - Meaning many ward ward predicted ID and arounds black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward predicted ID and around black - Meaning many ward ward around black - Meaning many ward ward ward ward ward ward ward ward	Brick, common clay brick Austind Autoclayed concrete products Stone wood insulation	DPD BDA Generic Brick, The Brick Development Association One Clock LCA One Clock LCA One Clock LCA Descharted 20171, LCPC OPSIPUTZ Bundsevertand or Descharte a V.	Red bride, average production, UK Lightweight concrete block, with expanded clay apgregate, game tome wool insulation panels, unfaced, generic	κ 	P2 P30 P2 P3 P22 P222 P222	
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ca.	Masonry motar/facing wall motar/mortar with special properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WMI	10.1		
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 | 0.052 External walls and facade
 | 10
 | 2.5 External envelope including roof finishes | | Masony cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Mortar (maxorry/bricklay/no) | Oskobau dat 2017-L EPO Mineralische Werkmödel:
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 | 2.5.External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
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| | Red brick, average production, UK, 215 mm x 102.5 mm x 1
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 | 8.32 External walls and facade
 | 102,550 brids (55 mm x 215 mm x 102 mm) oer m2
 | 2.5.External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block + | Brick, common clay brick | Eigenschaften Industrieverband WerkMörlei e.V. (1999)
GPD BDA Generic Brick, The Brick Development | Red brick average production. UK Concrete recycling, concrete
gruphing | | |
| C | ten, 2.13 kglunit, 1485 kg/m3 (Brick Development Associat
(BDA) Ltd (2019)) | in 157.6
 | n2 8.32

 | 8.32 External walls and facade
 | 102.560 bricks (65 mm x 215 mm x 102 mm) per m2
 | 2.5 External envelope including roof finishes | | plasterboard inner leaf, U-value 0.18 | Brick, common clay brick | Association | Red brick, average production, UK Concrete recycling, concrete
crushing | 9 P23 | 4 |
| ca . | EDA) Ltd (2019))
Cightweight concrete block, with expanded clay aggregate,
penetic, 650 kg/m3 (43.6 ba/H3), 18 kg/block (39.7 be/bloc | 6. 177.4
 | n2 8.62

 | 8.62 External walks and facade
 | 215440mm x 215mm x 215mm (10 blocks per m2)
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircreis block +
plasterboard inner leaf, U-value 0.18 | Aerated/Autoclaved concrete products | One Click LCA | Lightweight concrete block, with expanded cary aggregate,
genericoncrete recycling, concrete crushing | P2 | 3 |
| | penero, oso xgima (44 in betro), ni kgitekok (al. / Besteo
55 da 34 i 185 mm (0.01664) 01220.0071 (i) (Che Click LCA)
Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0
rl), 10.725 kgim2 (2.20 best0) (for 12.5 mm (0.49 in), 658 k |
 |

 | -
 |
 | | | | | |
 | | |
| - | e(, 10.725 kg/m2 (2.20 ba/H2) (for 12.5 mm/0.49 in), 656 k
(53.6 ba/H3) (One Click LCA) | a
ma sa
 | n2 1.43

 | 1.43 External walls and facade
 | 12.5
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Regular gypsum board | One Olick LOA | Gypeum plaster board, regular, generic Recycling of gypeum board,
gypeum
pulverizing and handling | P232 | 9 |
| C3 | |
 | 18.58

 | 18.50
 |
 | 2.5.External envelope including roof finishe | | | | Oskobau dat 2017-1, EPO Mineralische Werkmörtel: |
 | _ | |
| C3-balancing | Masony motacfacing wall motastmotar with special
properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WM | 10.1
 | n2 0

 | 0 External walks and facade
 | 10
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Mortar (masonry/bricklaying) | Mauermörtel - Vormauermörtel Mörtel mit besonderen | Maxonry motar/facing wall mortar/mortar with special properties
 | P2 | 4 |
| C3-balancing | Masonry morter/facing wall morter/morter with special
properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WMM | 30.36
 |

 | © External walls and facade
 |
 | 2.5.External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Mortar (masorrybricklaying) | Eigenschaften Industrieverband WerkMörteil e. V. (WW
Dekobau dat 2017-1, EPO Mineralische Werkmörteit | Masony moterifacing wall moterimoter with special properties
 | | |
| C3-ceanong | | 2.3
 | 9
82

 | O LEMMAN WARE and tacade
 | 10
 | 2.5 satema envelope including foor traines | | | | Mauermörtel - Vormauermörtel Mörtel mit besonderen
Eigenschaften Industrieverband WerkMörtel e.V. (WW | Masony mortentsong was mortermorter with special properties
 | 1/2 | 1 |
| C3-balancing | Red brick, average production, UK, 215 mm x 102.5 mm x i
mm, 2.13 kglunit, 1485 kg/m3 (Brick Development Associat | o
an 157.6
 | n2 0

 | 0 External walls and facade
 | 102.560 bricks (65 mm x 215 mm x 102 mm) per m2
 | 2.5.External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Brick, common city brick | EPD BDA Generic Brick, The Brick Development
Association | Red brick, average production, UK
 | Paa | 4 |
| | EDA) Ltd (2019))
Lightweight concrete block, with expanded clay appregate, |
 |

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 |
 | | | | | |
 | - | |
| C3-balancing | BDA) Lat (2019)
Lightweight concrete block, with expanded clay aggregate,
generic, 655 depth (40.6 be/t3), 18 kgblock (20.7 be/bloc
3 5x0 3x0 185 mm (0.019x1 012x0.007 in) (Dre Click (20.4 | 6. 177.4
 | e

 | @External walls and facade
 | 215440mm x 215mm x 215mm (10 blocks per m2)
 | 2.5.External envelope including roof finishes | | Masony cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Aerated/Autoclaved concrete products | One Click LCA | Lightweight concrete block, with expanded citry aggregate, genetic
 | P2 | 3 |
| C3-balancing | e), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 858 k | 0
m3 10
 | n2 0

 | O External walks and facade
 | 12.5
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Regular gypsum board | One Click LCA | Gypeum plaster board, regular, generic
 | P232 | |
| C3-balancing | (53.6 balt3) (Dne Click LCA) |
 |

 | -
 |
 | 2.5.External envelope including roof finishe | | parate board in the max, or had to the | | |
 | - | - |
| | Stone wool insulation panels, unfaced, generic, L = 0.037
Wimit, R = 2.73 m36/W (15.127Fh/87U), 150 kg/m3 (k.36
ba/t3) (papelcable for denatilier: 150-155 kg/m3 (k.24-35
ba/t3) (Lambdard-0.07 W(m, K) (Den Click (LCA)
Syptem plaster, 1100 kg/m3 (Bundesverband der |
 |

 |
 |
 | | | Masonry cavity wall with partial fill and aircrete block + | | One Click LCA |
 | | |
| C4 | balt(1) (applicable for densities: 100-150 kg/m3 (6.24-9.36
balt(1) ambdas(1.022 Wiles K) (Den Click CA) | 10
 | n2 11

 | 11 External walls and facade
 | 150
 | 2.5.External envelope including roof finishes | | Masony cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Stone wool insulation | | Stone wool insulation panels, unfaced, genetic Inert materials
landfilling | P3 | 7 |
| C4 | Gypsum plaster, 1100 kg/m3 (Bundesverband der
Gosindustrie) | 10
 | n2 1.61

 | 1.61 External walls and facade
 | 2
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Gypsum plaster (interior applications) | Oekobau.dat 2017-1, EPO GIPSPUTZ Bundesverband
Gipsindustrie e.V. | dig
oppum plaster Inet materials landfiling
 | P232 | 9 |
| C4 | |
 | 12.01

 | 12.61
 |
 | 2.5.External envelope including roof finishe | | paraticidad internal, Oradoro in | | openedation w.v. |
 | | |
| Of-balancing | Slone wool insulation panels, unfaced, generic, L = 0.037
WiniK, R = 2.73 m2KW (15 82°FNBTU), IS3 kg/m3 (8.36
bs/H3) (applicable for densities: 100-153 kg/m3 (8.24-9.35 | 10
 | ~ •

 | @External walls and facade
 | 150
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Stone wool insulation | One Click LCA | Stone wool insulation panels, unfaced, generic
 | Pa | 7 |
| | Ibs/10) (applicable for denaties: 100-150 kg/m3 (6.24-8.36
Ibs/10)(, Lambda=0.037 Wijm X) (Dies Click LCA)
Gypsum plaster, 1100 kg/m3 (Bundesverband der |
 |

 |
 |
 | | | | | |
 | | |
| C4-balancing | Gypsum plaster, 1100 kg/m3 (Bundesverband der
Gipsindustrie) | 10
 | n2 0

 | 0 External walks and facade
 | 3
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Gypsum plaster (interior applications) | Oskobau dat 2017-1, EPD GIPSPUTZ Bundesverband
Sipsindustrie e.V. | 5jpeun plaster
 | P232 | 9 |
| C4-balancing | |
 |

 | 1
 |
 | 2.5.External envelope including roof finishe | 1 | | | Oskobau dat 2017-1, EPD Mineralische Werkmörteit |
 | | |
| P | Masonry morter/facing wall morter/morter with special
properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WMM | 10.1
 | n2 -124

 | -2.48 External walls and facade
 | 10
 | 2.5.External envelope including roof finishes | 1 | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Mortar (masonry/bricklaying) | Maxemóriel - Vornauemóriel Móriel mit besonderen
Eigenschaften Industrieverband WerkMöriel a V IIIII | Masony motanitating wall motatimotar with special properties
 | P2 | 1 4 |
| 0 | Masonry morter/facing wall morter/morter with special
properties, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WMM | 30.36
 |

 | -7.43 External walls and facade
 | 10
 | 2.5.External envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Mortar (masorrybricklaying) | Eigenschaften Industrieverband WerkMörtei e.V. (WW
Ookobau dat 2017-1, EPO Mineralische Werkmörteit
Massemörteit - Vormausmörkeit/Mintei mit beannderen | Masony motarifacina wall motarimotar with special properties
 | P2 | |
| | properses, 1500 kg/m3, EPD coverage: >1500 kg/m3 (WM |
 |

 |
 |
 | | <u> </u> | | | Sigenschaften Industrieverband WerkMöntel e.V. (WW |
 | | 1 |
| Þ | Red brick, average production, UK, 215 mm x 102.5 mm x
mm, 2.13 kg/unit, 1405 kg/m3 (Brick Development Associat | 6
in 157.6
 | n2 - 40 -

 | 99.92 External walls and facade
 | 102.560 bricks (65 mm x 215 mm x 102 mm) per m2
 | 2.5.External envelope including roof finishes | 1 | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Brick, common clay brick | EPD BDA Generic Brick, The Brick Development
Association | Red brick, average production, UK
 | Paa | 4 |
| | |
 |

 | 72.89 External walks and facade
 | 215440mm x 215mm x 215mm (10 blocks per m2)
 | 2.5 External envelope including roof finishes | | | Aerated/Autoclaved concrete products | One Click LCA |
 | - | 1 |
| 0 | juby log birght concrete block, with expanded day aggregate,
generic, 650 kg/m3 (40.6 be/t3), 18 kgblock (39.7 be/bioc
3.5x0 Jub 185 mm (0.015x0 b12x0.007 in) (One Click LCA)
General materials from 1 motion remote A 5-55 mm (10.55). | 6. 177.4
 | nu

 | /z meanenal walls and facade
 | 215440mm x 215mm x 215mm (10 blocks per m2)
 | x.5 auternal envelope including roof finishes | | Masonry cavity wall with partial fill and aircrete block +
plasterboard inner leaf, U-value 0.18 | Aerased/Autoclaved concrete products | une usok LOA | Lightweight concrete block, with expanded clay aggregate, genetic
 | P2 | 6 |
| 0 | Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0
in), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 656 k | 0
10 Crit
 | n2 -2.31

 | -4.61 External walls and facade
 | 12.5
 | 2.5 External envelope including roof finishes | | Masonry cavity wall with partial fill and aircreis block +
plasterboard inner leaf, U-value 0.18 | Regular gypsum board | One Click LOA | Gypeum plaster board, regular, generic
 | P232 | 9 |
| 0 | (53.6 balt3) (One Click LCA) |
 |

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 | ├ ── │
 | | l – – – – – | presses solard inner lear, U-value 0.18 | | |
 | _ | + |
| A1-A3 Product stage (sect. | |
 | 21477.45 216

 | 131.9
 |
 | 2.5.External envelope including roof finishe
2.5.External envelope including roof finishe
2.6.Windows and external doors | | | | |
 | - | |
| sequestered carbon) | External wood door, 2,1 x 1 m (One Click LCA) |
 |

 | 38.68 Windows and doors
 | Entrance door
 | | | | Wood and wood board doors | One Click LCA | External wood door, 2,1 x 1 m
 | PB | - |
| A1-A3 Product stage (eacl.
sequestered carbon)
A1-A3 Product stage (eacl. | Window - uPVC frame DG | 24.1
 |

 | 950.3Windows and doors
 | External glazing
 | 2.6 Windows and external doors | | | PVC frame windows | FHH WLC Conventions v1 | Window - uPVC frame DG
 | PB | |
| sequestered carbon) | Internal wooden doorleaf, fee resistant, 1.901s0.838 m, 17:
Igin2 (JELD-WEN) | 24
 | n2 515.26 5

 | 15.20 Windows and doors
 | Internal doors
 | 2.6 Windows and external doors | | | Wood and wood board doors | EPD MOULDED PANEL INTERNAL DOORS FIRE
DOOR FD33, UNGLAZED | Internal wooden doorleaf, fire resistant
 | PB | |
| A1-A3 Product stage (exc
sequestered carbon) | | 1 -
 | 2534.12 25

 | 04.12
 |
 | 2.6.Windows and external doors | | | | |
 | 1 | 1] |
| A1-A3 Sequentered Carbon | External wood door, 2,1 x 1 m (One Click LCA) |
 | ant -66.0

 | 86.17 Windows and doors
 | Entrance door
 | 2.6.Windows and external doors | | t | Wood and wood board doors | One Click LCA | External wood door, 2,1 x 1 m
 | PB | 1 . |
| A1-A3 Sequestered Carbon | External wood door, 2,1 x 1 m (One Click LCA)
Window - uPVC thame DG
Internal wooden doorleaf, frei resistant, 1,981s0.838 m, 17:
rg/m2 (JELD-WEN) | 24.1
 | n2 -19
n2 -637.59 -6

 | -19 Windows and doors
37 59 Windows and doors
 | External glazing
 | 2.6 Windows and external doors
2.6 Windows and external doors | | | PVC frame windows
Wood and wood board doors | FIGH WLC Conventions v1
EPD MOULDED PANEL INTERNAL DOORS FIRE
DOOR FD33, UNGLAZED | Mindow - uPVC trame DG
Internal wooden doorleat, fire resistant
 | 28 | |
| A1-A3 Sequestered Carbon | kg/m2 (JELD-WEN) | 24.
 |

 | 42.75
 | meinal doors
 | 2.6. Windows and external doors | | | Wood and wood beard doors | DOOR FD30, UNGLAZED | internal wooden doonear, the resistant
 | PB | |
| Carbon | External wood door, 2,1 x 1 m (One Click LCA) |
 |

 | NE.19
16.98 Windows and doors
 | Entrance door
 | 2.6.Windows and external doors | | | Wood and wood board doors | One Click LOA | Dilanal wood door, 2.1 x 1 m
 | 20 | - |
| Ă | Nindow - uPVC frame DG
nternal wooden doorleaf, fire resistant, 1.981s0.838 m, 17: | 24.1
 | n2 273.45 2

 | 73.42 Mindows and doors
 | Edenal glazing
 | 2.6.Windows and external doors | | | PVC frame windows | PH WLC Conventions v1 | External wood door, 2,1 x 1 m
Mindow - uPVC frame DG
 | P0 | 1 |
| M | kg/m2 (JELD-WEN) | 24.
 | n2 159.55 1

 | 59.52 Windows and doors
 | Internal doors
 | 2.6 Windows and external doors
2.6 Windows and esternal doors | | | Wood and wood board doors | DOOR FD30, UNGLAZED | Internal wooden doorleaf, fire resistant
 | PB | 4 |
| | |
 | 449.50 4

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| 850 | |
 | unt 0

 | Windows and doors
 | Entrance door
 | 2.6. Windows and external doors | | | Wood and wood board doors | One Click LCA | External wood door, 2,1 x 1 m
 | PB | |
| 453
153 | Nedow - uPVC frame DG
memoi wooden doorleaf, fre resistant, 1.901s0.838 m, 17. | 24.1
 | unt 0
02 0

 | Windows and doors Windows and doors
 | Entrance door
External glazing
 | 2.6 Windows and external doors
2.6 Windows and external doors | | | Wood and wood board doors
PVC frame windows | One Click LCA
FHH WLC Conventions v1
EPD MOULDED PANEL INTERNAL DOORS FIRE | External wood door, 2,1 x 1 m
Nindow - uPVC terms
DG
historial and and for antidated | PB | - |
| 163
163
163
163 | Loterna wood door, 2,1 x 1 m (Une Lick LDA)
Window - VPC frame DG
Internal wooden doorleaf, fre resistant, 1.581s0.838 m, 17.
sg/m2 (JELD-WEN) | 24.1
 | uni 0
m2 0
m2 28.00

 | Windows and doors Windows and doors 28.08 Windows and doors 28.08
 | Entrance door
External glocing
miernal doors
 | 25. Windows and external doors
26. Windows and external doors
26. Windows and external doors
26. Windows and external doors | | | Wood and wood board doors
PVC frame windows
Wood and wood board doors | One Click LOA
Rieh WLC Conventions v1
EPD MOULDED PANEL INTERNAL DOORS FIRE
DOOR FD30, UNGLAZED | Referenal wood door, 2,1 ii 1 m
Nindow - LPVC frame
DG
Internal wooden doofwaf, fre rewistant | P8
P8
P8 | |
| 853
853
853
853
83 | | 24.1
24.
 | ani 6
n2 9
n2 32.0

 | 28.00
 | Entrance door
 | 2.6. Windows and external doors
2.6. Windows and external doors | | | Wood and wood board doors
PVC frame windows.
Wood and wood board doors
Wood and wood board doors
PVC frame wood board doors | One Click LCA |
 | P8
P8
P8
P8 | |
| 853
853
853
83
83
83 | Edemal wood door, 2,1 x 1 m (One Click LCA)
Window - uPVC frame DG | 24.1
24.
24.1
24.1
 | 28.00
anit d
nit d

 | EWIndows and doors Bill Mindows and doors Bill Mindows and doors Bill Mindows and doors EWIndows and doors EWIndows and doors EWIndows and doors
 | Entrance door
Extend glazing
Internal doors
Extended doors
Extended doors
Internal doors
 | | | | | One Click LCA
PriH WLC Conventions v1
Con Minut DED DANEL INTERNAL DOODS EIDE | Enternational doc. 21.11 m
Montas - UPC Entern GG
Internal
wood no. 21.11 m
Enternal wood no. 21.11 m
Bodium - UPC Entern GG
Internal wood no. 20.11 m
Internal wood no. 20.11 m | P8
P8
P8
P8
P8
P8 | |
| 453
453
453
453
83
83
83
83
83 | External wood door; 2,1 x 1 m (One Click LCA)
Window - uPVC frame DG
Internal wooden doorlead, file realistant, 1.581x3.838 m, 17:
kg/m2 (JELD-WEN) | 24.1
 | 310 310 m2 0 0 m2 0 0

 | 28.06
Ø Windows and doors
Ø Windows and doors
Ø Windows and doors
 | Entrance door
External glazing
Internal doors
 | 2.6.Windows and external doors
2.6.Windows and external doors
2.6.Windows and external doors | | | Wood and wood board doors
PVC frame windows
Wood and wood board doors | One Click LCA
FIRE W.C. Conventions v1
EPD INDULIDED PANEL INTERNAL DOORS FIRE
DOOR FD30, UNGLAZED | External wood door. 2.11 1 m
Mindow - uPVC taree DG
Internal
wooden doolnad, fire resistant | Pil
Pil
Pil
Pil
Pil | |
| 163
463
463
83
83
83
83
83
84
84
84 | Edemail wood door, 2,1 x 1 m (One Click LCA)
Window - uPVC frame BG
Internal wooden doorlead, Tes sealatant, 1 S01a2.838 m, 17:
kg/m2 (JELD-WEN)
Edemail wood door, 2,1 x 1 m (One Click LCA) | 24.1
24.
24.1
 | 34.00 vil 0 vil 0 vil 0 vil 0 vil 34.12 vil 34.12 vil 11346

 | 28.00
d Mindows and doors
d Mindows and doors
d Mindows and doors
50.2 Windows and doors
53.2 Windows and doors
 | Entrance door
Edutroid glaring
Internal doors
Entrance door
Extension glaring
 | 2.6.Windows and external doors
2.6.Windows and external doors | | | Nood and wood board doons
PVC frame windows
Wood and wood board doons
Nood and wood board doons
PVC frame windows | One Click LCA
PriH WLC Conventions v1
Con Minut DED DANCE INTERNAL DOODS EIDE | Ensemal wood door. 2.1 st m
Henden - uPCP frame GG
Internal wooded door.1 st m
External wooded door.2 st st m
External wooded door.2 st st m
Henden - uPCP frame GG
 | Pia
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Pia
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Pia
Pia | 8
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8 |
| 223
253
263
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24
24 | External wood door; 2,1 x 1 m (One Click LCA)
Window - uPVC frame DG
Internal wooden doorlead, file realistant, 1.581x3.838 m, 17:
kg/m2 (JELD-WEN) | 24.1
 | 34.00 vil 0 vil 0 vil 0 vil 0 vil 34.12 vil 34.12 vil 11346

 | 28.06
4 Windows and doors
5 Windows and doors
4 Windows and doors
56.2 Windows and doors
 | Entrance door
External glazing
Internal doors
Entrance door
 | E. & Windows and esternal doars | | | Wood and wood board doors
PVC frame windows
Wood and wood board doors
Wood and wood board doors | One Click LCA
FIH WLC Conventions v1
EPO MOLLEOP PAYEL INTERNAL DOORS FIRE
DOOR FD33, UNGLAZED
One Click LCA | External wood door. 2.11 1 m
Mindow - uPVC taree DG
Internal wooden doolnad, fire resistant
 | P8
P8
P8
P8
P8
P8
P8
P8
P8
P8
P8 | 8
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| 553
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555 | Edential wood door, 2.1 x 1 m (Chra Click LCA)
Whother - JWC: frame GG
Issential wood model, free realizater, 1.981 to 2.838 m, 17:
sgand (ELD-WER)
Estemati wood door, 2.1 x 1 m (Chra Click LCA)
Whother - JWC: frame GGA
Whother - JWC: frame GGA
Mental wooden store food, framewater, 1.981 to 2.838 m, 17:
sgand (ELD-WER) | 24.1
24.
24.1
24.1
 | Jac Jac all 6 1 all 1 1

 | Example 2 August and doorn Officious and doorn Officious and doorn Officious and doorn S3 2 Ministers and doorn S1 2 Ministers and doorn S1 2 Ministers and doorn
 | Entrance dior
External glacing
Internal diore
Entrance diore
External glacing
Internal diore
 | 2.6. Windows and esternal doors
2.6. Windows and esternal doors | | | Waod and wood board doors
PVC hama windowa
Waod and wood board doors
Waod and wood board doors
PVC hama windowa
Waod and wood board doors | Der Click LCA
Frah ML CLOSwerlicher 11
Ern Mohlter Devict, Internet, DOORS FIRE
DOOR FOSS, UNBLACED
DOOR Click LCA
Der Click LCA
Der Click LCA
Der Click LCA
Der Mohlter Devict, Internet, DOORS Fire
DOOR FOSS, UNSLAZED | Executives days 2111 is
Executives days 2111 is
Executive and the constant
Sector and the con | P8
P8
P8
P8
P8
P8
P8
P8
P8
P8
P8
P8
P8 | |
| 853
853
853
853
853
853
853
853 | Exercit and data: 2.1 + 1 m (Diva Cika LCA)
Material work Chesards (Terrestander, 1.581/s1233 m, 17)
Anger 2 (SLD-WER)
Service 3 and data: 2.1 + 1 m (Diva Cika LCA)
Material work data: 2.1 + 1 m (Diva Cika LCA)
Material work data: 2.1 × 1 m (Diva Cika LCA)
Columnia work data: 2.1 × 1 m (Diva Cika LCA)
Columnia work data: 2.1 × 1 m (Diva Cika LCA) | 24.1
24.
24.1
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M	Planed timber, conifer (Treindustrien)		25.95m2	135.77	195.7	Internal walls and non-bearing structures	58 Quantity adjusted for stud wall per 1 m2 of wall area with 600 mm spacing	2.7.Internal walks and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral	Filin wood/limber (softwood and hardwood)	Structural timber of spruce and pine, Norwegian Wood Industry Federation	Planed timber, conifer		-	<u> </u>
~~~	Slass wool insulation panels, unfaced, generic, L = 0.001		23.8414		45		with 600 mm spacing	2.7 John and and partoons			ENGINE AF ON		Industry Federation	Paring ander, contra			
A5-3	WinK, R = 3.23 m2KW (18 f2'Fh/BTU), 25 kg/m3 (1.56 ba/f3), (applicable for densities: 0-25 kg/m3 (0-1.56 ba/f3 ambded 201 Wiley 10 Jone (0-1.02)	205	97.75m2	39.58	39.5	Internal walls and non-bearing structures	500 Quantity adjusted so that insulation fills the gaps of stud wall	2.7 Internal walk and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK		One Click LCA	Glass wool insulation panels, unfaced, generic		Pa	
A5-3	Gypsum plaster board, regular, genetic, 6.5-25 mm (0.25-0 0, 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 858 k [53.6 ba/t2) (One Click LCA)	oska kgim3	223.7+12	32.96	32.9	Internal walls and non-bearing structures	13	2.7 internal walk and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	ool Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic		P232	1
A5-3	23 6 bitroj (date blak codu Gypsum plater boast, regular, genetic, 6.5-25 mm (0.25-6 (), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 658 k (53.6 ba/t2) (One Click LCA)	osia Agina	223.7m2	32.98	32.9	Internal walls and non-bearing structures	13	2.7 Internal walks and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	epol Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic		P232	
45-3	Planed timber, conifer (Treindustrien)		25.95m2	109.6	109	Internal walls and non-bearing structures	Cuantity adjusted for stud wall per 1 m2 of wall area	27.Internal walls and partitions 27.Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral	ppi Plan wood/limber (softwood and hardwood)	Structural timber of spruce and pine, Norwegian Wood	Planed timber, confer			-
83	Sizes wool insulation namely unfaced generic 1 a 0.031		23.10152	0		internal wate and non-bearing structures	with 600 mm spacing	2.7 Internal walk and partitions			insulation, for UK		Industry Federation	Haned Simpler, contrer		10	
80	WinK, R = 3.23 m2KW (18 f2'Fh/BTU), 25 kg/m3 (1.56 ba/f3), (applicable for densities: 0-25 kg/m3 (0-1.56 ba/f3 ambded 201 Wiley 10 Jone (0-1.02)	206. 1	97.75m2	0		Internal walls and non-bearing structures	100 Quantity adjusted so that insulation fills the gaps of stud wall	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK		One Click LGA	Glass wool insulation panels, unfaced, generic		P3	
83	2ppsum plaster board, regular, genetic, 6.5-25 mm (0.25-6 rl), 10.725 kg/m2 (2.20 ba/t0) (for 12.5 mm/0.49 in), 656 i 53 6 ba/t3) (Dne Click LCA) 2ppsum plaster board, regular, genetic, 6.5-25 mm (0.25-6	ose kgima	223.7+12	•		Internal walls and non-bearing structures	13	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK		One Click LCA	Gypeum plaster board, regular, genetic		P232	4
83	Lypsum passer board, regular, generic, 6.3-45 mm (U.35-6 n), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 858 k (53.6 ba/t3) (One Olick LCA)	kgim3	223.7m2	•		Internal walls and non-bearing structures	13	2.7 Internal walls and partitions 2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	egol Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic		P232	
C2	Planed timber, conifer (Treindustrien)		25.95m2	2.05	4.0	Internal walls and non-bearing structures	ge Quantity adjusted for stud wall per 1 m2 of wall area	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation for LM	Pain wood/timber (softwood and hardwood)	Structural timber of spruce and pine, Norwegian Wood Industry Enderation	Planed timber, conifer	Trailer combination, 40 ton capacity, 1001 Ill rate	. ⁵ PS	
	Glass wool insulation panels, unfaced, generic, L = 0.031 Minut. D = 1.23 m36/36/18 #215x80710 35 kmim3 (1.55						100 Quantity adjusted so that insulation fills the gaps of				Wooden stud internal wall assembly, 100 mm, incl. mineral workships, for UK		inder president			-	
C2	Hendy, Kapitable for densities: 6-25 (pd spin) (1-36 BeH2), (papitable for densities: 6-25 (pd spin) (0-15 lise/12 Lambda=0.011 W((n.K)) (Dne Click LCA) Sypsum plaster bosed, regular, genetic, 8:5-25 mm (0.25-6 (), 10.725 kg/m2 (2:26 beH2) (for 12.5 mm/0.49 in), 658 i	205	97.75n2	0.72	1.4	Internal walls and ton-bearing structures	500 because adjusted no use transmissi tan par gapa or				Insulation, for UK Wooden stud internal wall assembly, 100 mm, incl. mineral		One Click LGA	Glass wool insulation panels, unfaced, generic	Dumper truck, 19 ton capacity, 100% fill n	_	
62	n), 10.725 kg/m2 (2.20 kw/t2) (for 12.5 mm/0.49 in), 658 k 53.6 kw/t3) (One Click LCA) 2ypsum plaster board, regular, genetic, 6.5-25 mm (0.255 (r), 10.735 kg/m2 (2.20 kw/t2) (for 12.5 mm/0.49 in), 658 k		223.7m2	27.38	547	Internal walls and non-bearing structures	13	2.7 Internal walk and partitions			Wooden stud internal was assembly, 100 mm, incl. mineral insulation, for UK Wooden stud internal wall assembly, 100 mm, incl. mineral second rate for UK	Keguar gipsun board	One Click LCA	Gypeum plaster board, regular, generic	Dumper truck, 19 ton capacity, 100% fill n	-	
C2 62	n), 10.725 kgim2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 858 k (53.6 ba/t2) (One Olick LCA)	kgim3	223.7+2	27.30	54.7	Internal walls and non-bearing structures	13	2.7 Internal walls and partitions 2.7 Internal walls and partitions			and and the UK		One Click LGA	Gypeum plaster board, regular, generic	Dumper truck, 19 Ion capacity, 100% fill n	a#232	1
ca	Planed timber, coniller (Treindustrien)		25.95m2	12.74	12.7	Internal walls and non-bearing structures	50 Suanity adjusted for stud wall per 1 m2 of wall area with 600 mm spacing	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	Plan wood/timber (softwood and hardwood)	Structural timber of spruce and pine, Norwegian Wood Industry Federation	Planed timber, conifer	Waste wood and wood products incineral	.5885	
8	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0 n), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 858 k (53.6 ba/t2) (One Olick LCA)	osie kgimā	223.7m2	1.77	1.7	Internal walls and non-bearing structures	13	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	epol Regular gypsum board	One Click LGA	Gypeum plaster board, regular, generic	Recycling of gypsum board, gypsum pulverizing and handling	P232	
C3	2ypsum plaster board, regular, genetic, 6.5-25 mm (0.25-0 n), 10.725 kg/m2 (2.20 be/t2) (for 12.5 mm/0.49 in), 858 i (53.6 be/t3) (One Click LCA)	o.se kgim3	223.7m2	1.77	1.7	Internal walls and non-bearing structures	13	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	ngol Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic	Recycling of gypsum board, gypsum pulverizing and handling	P232	4
C3-balancing	Planed timber, conifer (Treindustrien)	1	25.95m2	17.20	17.2	Internal walls and non-bearing structures	Standby adjusted for stud wall per 1 m2 of wall area with 600 mm spacing	2.7 Internal walls and partitions 2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral	Filin wood/timber (softwood and hardwood)	Structural timber of spruce and pine, Norwegian Wood	Planed Simber, confler	-	PS	t .
C3-balancing	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0 e), 10.725 kg/m2 (2.20 ba/t2) (for 12.5 mm/0.49 in), 658 k		223.7m2			Internal walls and non-bearing structures	with 600 mm spacing	2.7 Internal walk and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral	pol Regular gypsum board	Industry Federation	Gypeum plaster board, regular, generic			
C3-balancing	rty, in 72 kg/m (220 birk2) (n 125 minorit in), tota (53.6 birk13) (One Cick LCA) Sypaun plaster boad, regular, genetic, 65-25 mm (0.250 n), 10.725 kg/m2 (220 birk12) (for 12.5 mm/0.49 in), 658 k		223.7m2			Internal walls and non-bearing structures		2.7 Internal walk and partitions			insulation, for UK Wooden stud internal wall assembly, 100 mm, incl. mineral	pol Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic		P232	
C3-balancing	(53.6 batt3) (One Click LCA)		220.71%	9478.45				27.internal walls and partitions			insulation, for UK	Kellone Monori oran		oppears passes coard, regular, generic			
C4	Glass wool insulation panels, unfaced, generic, L = 0.031 Nink, R = 3.23 mGWW (18 82°FNBTU), 25 kg/m3 (1.56 bs/h3), (applicable for densitian: 0-25 kg/m3 (2-1.56 bs/h3) Lambda=0.011 W(m/k) (Diso Click LCA)	ao. 1	97.75m2	129	12	Internal walks and non-bearing structures	Duanity adjusted so that insulation fills the gaps of stud wall	2.7 Internal walk and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	egol Glass wool insulation	One Click LCA	Gass wool insulation panels, unfaced, generic	inert materials landfilling	P3	
C4-balancing	Gass wool insulation panels, unfaced, generic, L = 0.031 Ninsk, R = 3.23 mSWW (18 82°FNBTU), 25 kg/m3 (1.56 bs/t3), (applicable for densitian: 0-25 kg/m3 (2-1.56 bs/t3) Lambda=0.031 W(m/K) (Dise Click LCA)	206 1	97.75m2	•		Internal walls and non-bearing structures	100 Quantity adjusted so that insulation file the gaps of shad wall	2.7 Internal walks and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	Chies wool insulation	One Click LGA	Glass wool insulation panels, unfaced, generic		P3	
0	Planed timber, confler (Treindustrien)		25.95m2	-358.38	-716.7	Internal walls and non-bearing structures	ge Quantity adjusted for stud wall per 1 m2 of wall area with 600 mm spacing	2.7 Internal walks and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	Thin wood/timber (softwood and hardwood)	Structural timber of spruce and pine, Norwegian Wood Industry Federation	Planed timber, conifer		PS	
D	Gypsum plaster board, regular, generic, 6.5-25 mm (0.25-0 e), 10.725 kg/m2 (2.20 ba/H2) (for 12.5 mm/0.49 in), 656 k	osia Agina	223.7m2	-2.05	-67	Internal walls and non-bearing structures	tal boo minispacing	2.7 Internal walls and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK		One Click LCA	Gypeum plaster board, regular, generic		P232	
D	(53.6 ba19) (One Click LCA) Sypsum plaster board, regular, generic, 6.5-25 mm (0.25-0 n), 10.725 kg/m2 (2.20 ba192) (for 12.5 mm/0.49 in), 658 k	o.se kgim3	223.7+2	-2.65	67	Internal walks and non-bearing structures	13	2.7 Internal walks and partitions			Wooden stud internal wall assembly, 100 mm, incl. mineral insulation, for UK	epol Regular gypsum board	One Click LCA	Gypeum plaster board, regular, generic		P232	
0	(51.6 balt0) (One Olick LCA)		-					2.7.Internal walls and partitions								+	-
A1-A3 Product stage (excl.		-	8.19m3	2469.53	2527.0	Finishes and coverings	Edernal walls, internal walls, ceilings	2.7.Internal walls and partitions 3.Finishes				Gypsum plaster (interior applications)	FIH WLC Conventions v1			P232	-
sequestered carbon) A1-A3 Product stage (eecl.	Paster Akyd emulsion-based paint, 1.2 kgl, pigment volume	-	5540	1004.94		Enishes and coverings	External walls, internal walls, cellings	1 Englisher				Paints, coatings and lacquers	PHH WELL CONVENIENT VI	Planer Allori amulsion,hasari naint		P232	
sequestered carbon) A1-A3 Product stage (eac	concentration 15.8 v%, solvent weight 1 m% (One Click LC	-	50%g	203.03	203.0	Finishes and coverings	Edernal valis, internal valis, cellings	3 Finishes				Paints, coatings and lacquers	One Click LCA	Aliyd emulsion-based paint		P7	
sequestered carbon) A 1-A3 Sequestered Carbon	Plaster	1	8.540	-	-	Finishes and coverings	Edenal vals, intenal vals, cellnos	2 Finishes				Ovosum plaster (interior applications)	FHH WLC Conventions v1	Plaster		P202	<b>+</b>
A1-A3 Sequestered Carbon	Akyd emulsion-based paint, 1.2 kgl, pigment volume	1	50 kg	0		Finishes and coverings	Edemal walls, internal walls, ceilings	3.Finishes	1 1			Paints, coatings and lacquers	One Click LCA	Fasan Alkyd emulsion-based paint		P7	
A1-A3 Sequestered Carbon	concentration 15.8 v%, solvent weight 1 m% (One Olick LC	1					-	1.Finishes							1	+	1
44	Plaster	1	8.1910	266.73	266.7	Finishes and coverings	Ademal walls, internal walls, ceilings	1 Finishes				Gypsum plaster (interior applications)	FIGH WLC Conventions vf	Plaster		P222	1
A4	Akyd emulaton-based paint, 1.2 kgl, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC	-	50 kg	1.44		Finishes and coverings	External walls, internal walls, ceilings	3.Finishes 3.Finishes				Paints, coatings and lacquers	One Click LCA	Alkyd emulsion-based paint		P7	-
45-3	Plaster Alkvd emulsion-based paint, 1,2 kpl, pipment volume	1	8.1910	268.10 86.15	66.1	Finishes and coverings	External walls, internal walls, ceilings	3.Finishes				Gypsum plaster (interior applications)	FIGH WLC Conventions v1	Plaster		P222	1
453	Akyd emulsion-based paint, 1.2 kgil, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC	-	50 kg	12.25		Finishes and coverings	Edernal walls, internal walls, ceilings	3.Finishes				Paints, coatings and lacquers	One Click LCA	Akyd emulsion-based paint		P7	
<b>A5-3</b> 83	Plaster		8.1910	94.43 0		Finishee and coverings	External walls, internal walls, ceilings	1 Finishes 1 Finishes				Gypnum plaster (interior applications)	FHH WLC Conventions v1	Plaster		P222	+
83	Akyd emulsion-based paint, 1.2 kg3, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC		solig	0		Finishes and coverings	Edernal walls, internal walls, ceilings	3.Finishes				Paints, coatings and lacquers	One Click LCA	Aliyd emulsion-based paint		P7	1
83 84	Plaster		8.1910	1112.91	2239.8	Finishes and coverings	Edernal walls, internal walls, ceilings	1.Finishes 1.Finishes				Gypsum plaster (interior applications)	FIGH WLC Conventions vf	Plaster		P232	
04 D4	Akyd emutation-based paint, 1.2 kgl, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC	-	50 kg	716.15	1085.3	Finishes and coverings	External walls, internal walls, ceilings	1 Finishes 1 Finishes		-		Paints, coatings and lacquers	One Click LCA	Alkyd emulsion-based paint		P7	1
2	Plaster		8.19m3	20.37		Finishes and coverings	External walls, internal walls, ceilings	3 Finishes				Gypsum plaster (interior applications)	FHH WLC Conventions v1	Plaster	Dumper track, 19 ton capacity, 100% fill n	ra#232	
C2	Akyd emulsion-based paint, 1.2 kgll, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC	-0	Sõlig	0.073		Finishes and coverings	Edernal walls, internal walls, ceilings	3.Finishes				Paints, coatings and lacquers	One Click LCA	Akyd emulsion-based paint	Dumper truck, 19 ton capacity, 100% fill n	u#7	
C2 C4	Plaster		8.1910	28.45 36.21	40.0	Finishes and coverings	Edernal walls, internal walls, ceilings	3.Finishes 1.Finishes				Gypsum plaster (interior applications)	FIGH WLC Conventions vf	Plaster	hert materials landfilling	P232	t
04	Akyd emulsion-based paint, 1.2 kg8, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC	-	50 kg	0.13		Finishes and coverings	Edernal walls, internal walls, ceilings	3.Finishes				Paints, coatings and lacquers	One Click LCA	Akyd emulsion-based paint	inert materials landfilling	₽7	
04 Of-balancing	Plaster		8.1910	36.36	36.3	Finishes and coverings	Edernal walls, internal walls, cellings	3 Finishes 3 Finishes		_		Gypsum plaster (interior applications)	FreH WLC Conventions v1	Plaster		P222	+
O4-balancing	Alkyd emutation-based paint, 1.2 kg/l, pigment volume concentration 15.8 v%, solvent weight 1 m% (One Click LC	-	50 kg	0	4	Finishes and coverings	External walls, internal walls, ceilings	3.Finishes				Paints, coatings and lacquers	One Click LCA	Akyd emulsion-based paint		P7	
C6-balancing				4272.41	\$782.0			1Finishes 1Finishes								$\pm$	
06-electricity	Cledricity, UK 2022, based on energy supplementary table Whole life carbon assessment RICS, 2nd edition	1	6431KWh	25104.05	112944.4	Electricity use	OPER			ther uses (06.3	2	Electricity		Electricity, UK 2023		Pß	
87	Water supply, LIK 2023		240.9m3	\$10.70		Total water consumption	6 person 110 lipid		87.1 - Essential Building- integrated systems			Water		Water supply, UK 2025		PB	
L	1	1		25654.81	116498.5	•	1			-	1		1	I			1