

APPENDIX B END OF-LIFE SCENARIOS

Material group	End-of-life scenario	Materials included	C3-C4 waste, processing and landfilling	D Recycling benefits
Mineral building materials	Recycling for ground works	Concrete*, Cement*, Bricks, Porcelain, Plaster, Clay products, Stone, Ceramics, Asphalt	C3: Construction waste preparation for recycling	Recycling benefit from replacing the primary gravel
Metals	Metal preparation and recycling**	Aluminium, Steel, Stainless steel, Galvanized steel, Copper coated, Copper uncoated, Brass, Zinc	C3: Metal waste preparation	Recycling benefits for replacing virgin metal
Biobased materials with heating value	Incineration and energy recovery	Wood, Wood products	C3: Construction waste incineration for energy recovery	Recovered energy
Other materials with heating value	Incineration and energy recovery	Plastics	C3: Construction waste incineration for energy recovery	Recovered energy
Other materials that can be landfilled in construction waste site	Disposal / landfilling of inert material	Coatings, Synthetic materials, Panels and boards***, Insulating materials***, Glass, Window and façade components***	Disposal of inert construction waste	

* Taking into account concrete carbonation.

** Recycling potential can only be reported for metals with shares of primary manufacturing, i.e. if a product is made of recycled material, it no longer has recycling potential. 5% of losses is assumed for recycling (the remaining 95% are recycled).

*** When not included to above groups.

APPENDIX C ONE CLICK LCA INFORMATION EXPORT AND EPDS

Table C.1 One Click LCA Data input

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Aggregate (crushed gravel), generic, dry bulk density	1600 kg/m3			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	1600	EN15804+ A1	-
Air handling unit, with heat recovery through plate heat exchanger	10 000 m3/h (5885.8 ft3/min), 1256 kg/unit (2769 lbs/unit)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2019	LOCAL	ecoinvent		EN15804+ A1	-
Air heat pump, 2,2 kW, R410A				One Click LCA	-	One Click LCA	ISO14040	Internally verified	2013	LOCAL	ecoinvent		-	Only with EN15804
Aluminium composite panels	4mm, 7.04 kg/m2		Gesamtverband der Aluminiumindustrie	IBU	EPD-GDA-20130261-IBG1-EN	EPD Aluminium composite panels	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	germany	GaBi		PCR Products of aluminium and aluminium alloys, 10//2012	Only with EN15804
Aluminium frame window	24.27 kg/m2, 2.3 m2/unit		Organisation professionnelle représentative des concepteurs, fabricants et installateurs de menuiseries	INIES	INIES_CFE N20181017_145645, 8715	FDES	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	france	ecoinvent		EN15804+ A1	EN15804+ A1

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
			extérieures en profilés aluminium											
Aluminium framed glazed doors, double glazed, per sq. meter	83% glass, 12% aluminium, 3% steel, 40.79	AXILE Family, EDGE Family, KINETIC Family, ELITE Aero	Optima	International EPD System	S-P-00480	EPD Aluminium Framed Glazed Doors	EN15804+A1	Third-party verified (as per ISO 14025)	2017	unitedKingdom	ecoinvent		PCR 2012:01 Construction products and Construction services, ver. 2.01, 09/03/2016	Only with EN15804
Aluminium framed glazed doors, double glazed, per unit	83% glass, 12% aluminium, 3% steel, width 990mm; height 2.60m, glass thickness 14mm	AXILE Family, EDGE Family, KINETIC Family, ELITE Aero	Optima	International EPD System	S-P-00480	EPD Aluminium Framed Glazed Doors	EN15804+A1	Third-party verified (as per ISO 14025)	2017	unitedKingdom	ecoinvent		PCR 2012:01 Construction products and Construction services, ver. 2.01, 09/03/2016	Only with EN15804
Autonomous fire alarm system	90 dB	BAAS Ma	Legrand - URA	INIES	LGRP-00176-V01.01-FR, 5431	PEP	PEP	Third-party verified (as per ISO 14025)	2016	france	ecoinvent		EN15804+A1	-
Bituminous waterproofing system - Vapor barrier	3.01 kg/m2	AXTER, DERBIGUM, MEPLER, SIPLAST-ICOPAL, SOPREMA	Chambre Syndicale Française de l'Étanchéité	INIES	INIES_CPA R20180220_174855, 8351	FDES	EN15804+A1	Third-party verified (as per ISO 14025)	2017	france	ecoinvent		EN15804+A1	EN15804+A1
Brass fixtures,	1.96 kg/piece	080st - chromed brass	VOLA	EPD Danmark	MD-18008-EN	EPD VOLA A/S	EN15804+A1	Third-party verified (as	2018	denmark	GaBi		EN15804+A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
shower heads								per ISO 14025)						
Brass fixtures, taps	1.32 kg/piece	HV1 - stainless steel	VOLA	EPD Danmark	MD-18005-EN	EPD VOLA A/S	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	denmark	GaBi		EN15804+ A1	-
Cabinet with shelves from HPL	25,8kg (27,2 with packaging)	Titan 2A4 HPL	Svenheim Møbelindustri	EPD Norge	NEPD-366-252-EN	EPD Office furniture, Titan cabinet 2A4 - w/ shelves - HP laminate	EN15804+ A1	Third-party verified (as per ISO 14025)	2015	lithuania	ecoinvent		NPCR 021	Only with EN15804
Cable ladder / tray, steel	KHZ, including brackets			One Click LCA		Adjusted data based on the specifications of the Swedish Transport Administration (Trafikverket). Original quantities were specified by WIBE.				LOCAL	Other			
Ceiling panels, from steel	3-15 kg/m2		TAIM	IBU	EPD-TAI-20130184-ICG2-DE	EPD	EN15804+ A1	Third-party verified (as per ISO 14025)	2013	germany	GaBi	7850	PCR Metalldecken 2013	Only with EN15804
Ceiling vent, passive	Q min. = 200m3/h, Q max. = 400m3/h	DONNEE PAR DEFAUT	DED	INIES	INIES_DTE R20191220_142530, 13592	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	france	ecoinvent		EN15804+ A1	EN15804+ A1

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Cement-based leveling screed, for residential and commercial buildings	3-30 mm, 1100 kg/m3	Zemtec 1K	PCI Augsburg	IBU	EPD-PCI-20170032-IBE1-DE	EPD Zement-Bodenausgleich PCI Zemtec 1K für Wohnungs- und Gewerbebau PCI Augsburg GmbH	EN15804+A1	Third-party verified (as per ISO 14025)	2017	germany	GaBi	1100	PCR Mineralische Werkmörtel, 07/2014	Only with EN15804
Ceramic shower tray, French average		DONNEE PAR DEFAUT	DED	INIES	INIES_DRE C20170317_174250, 6399	MDEGD_F DES	EN15804+A1	Third-party verified (as per ISO 14025)	2017	france	ecoinvent		EN15804+A1	EN15804+A1
Ceramic tiles, incl. underlayment membrane				One Click LCA		One Click LCA generic construction definitions				europa	Other			
Ceramic toilet	19.6 kg/unit	- DURAVIT : Starck 3 (420009; 452709; 220209). ME by Starck (452909; 453009). DuraStyle (455209; 457109). // - KOHLER : Struktura (EDE101-	Association Française des Industries de la Salle de Bains	INIES	INIES_CCU V20200303_175319, 14206	FDES	EN15804+A1	Third-party verified (as per ISO 14025)	2020	france	ecoinvent		EN15804+A1	EN15804+A1

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
		00 ; EDF101-00). Patio (EDV101-00 ; E1534-00). Brive (E4345-00) // - ROCA : DEBBA (A346998000 ; A34699L000). VICTORIA (A34630300S).												
Ceramic wall tile	6 mm, average density 2000 kg/m3		Mosa	MRPI	11.1.0002.004	EPD Wandtegelcollectie Koninklijke Mosa	EN15804+A1	Third-party verified (as per ISO 14025)	2013	unitedKingdom	ecoinvent	2000	EN15804+A1	-
Ceramic wall tiles	7.5 mm, 3000 kg/m2		Seranit Granit Seramik	International EPD System	S-P-00676	EPD for For Floor Tiles in accordance with EN15804 and ISO14025	EN15804+A1	Third-party verified (as per ISO 14025)	2015	turkey	ecoinvent	3000	PCR 2012:01 Construction products and Construction services, ver.1.2, 15/03/2013	Only with EN151404
Charging station		witty.park XEV6XXX charging station	Hager SE	INIES	HAGE-00001-V01.02-EN, 5178	PEP	-	Third-party verified (as per ISO 14025)	2016	germany	ecoinvent		EN15804+A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Cold water storage tank	81.77 kg/unit	DONNEE PAR DEFAUT	MINISTERE DE L'ENVIRONNEMENT, DE L'ENERGIE ET DE LA MER - MINISTERE DU LOGEMENT ET DE L'HABITAT DURABLE	INIES	INIES_DBA L2020043 0_090856, 16473	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2020	france	ecoinvent		EN15804+ A1	EN15804+ A1
Concrete	C50/60 (ex rebar)		IZB	IBU	EPD_IZB_2 013461_D	Beton der Druckfestigkeitsklasse C 50/60, Informations Zentrum Beton GmbH 2013	EN15804+ A1	Third-party verified (as per ISO 14025)	2013	germany	GaBi	2400	PCR Rechenregeln für die Ökobilanz und Anforderungen an den Hintergrundbericht, 09/2012, PCR Betonbauteile aus Ort- und Lieferbeton, 07/2012, PCR Betonfertigteile, 05/2011	Only with EN15804
Concrete assembly for				One Click LCA		One Click LCA generic				LOCAL	Other			

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
stairs and elevator shafts per one metre height						construction definitions								
Concrete balcony assembly	200 mm			One Click LCA		One Click LCA generic construction definitions				LOCAL	Other			
Concrete block wall, with cellular high density solid blocks, per m2 of wall including mortar	100 mm thickness wall			ICE	-	ICE database August 2019, V3.0	EN15804+ A1	Self declared	2019	unitedKingdom	-		EN15804+ A1	-
Concrete block wall, with high density solid blocks, per m2 of wall including mortar	90 mm thickness wall			ICE	-	ICE database August 2019, V3.0	EN15804+ A1	Self declared	2019	unitedKingdom	-		EN15804+ A1	-
Concrete column - for concrete buildings	Rectangular column, B45			One Click LCA		One Click LCA generic construction definitions				LOCAL	Other			
Concrete ground slab assembly incl. insulation	550 mm			One Click LCA		One Click LCA generic construction definitions				europe	Other			

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Concrete paving	15.4 m ² /m ³ , 96 units/m ³	Andover Textured	Aggregate Industries	International EPD System	S-P-00684	EPD for precast concrete paving	EN15804+ A1	Third-party verified (as per ISO 14025)	2015	unitedKingdom	ecoinvent	2400	PCR 2013:02 Concrete, ver. 1.02, UN CPC 375	Only with EN15804
Concrete roof assembly	U-value 0.13 W/m ² K, TEK17, 520 mm			One Click LCA		One Click LCA generic construction definitions				europa	Other			
Concrete roof tiles	Avg. thickness per m ² : 22.4 mm, 334x420 mm, 2100 kg/m ³		Eternit	IBU	EPD-ETE-20130224-IAA1-DE	EPD Eternit Dachstein Heidelberg Eternit Dachstein Verona Eternit Dachstein Göteborg Eternit Dachstein Kapstadt Eternit AG	EN15804+ A1	Third-party verified (as per ISO 14025)	2014	germany	GaBi	2100	PCR Betondachst eine, 10/2012	Only with EN15804
Concrete, precast, paving block, grey	100 mm, 225 kg/m ² , 2250 kg/m ³		SLG	IBU	EPD-SLG-20150317-CAE1-DE	Oekobau.dat 2017-I, EPD Betonpflasterstein grau mit Vorsatz Betonverband Straße, Landschaft, Garten e.V. (SLG)	EN15804+ A1	Third-party verified (as per ISO 14025)	2015	germany	GaBi	2250	PCR Oberbaumaterialien für Verkehrsweg e im Aussenbereich, 11/2014	Only with EN15804
Desks and workbenches	52.8 kg/unit	Xio	Nowy Styl	ITB	101/2020	EPD CONVENI	EN15804+ A1	Third-party verified (as	2020	poland	ecoinvent		ITB PCR A General	Only with EN15804

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
						O and XIO DESKS AND TABLES		per ISO 14025)					Product Category Rules for Construction Products (PCR based on EN15804)	
District heat distribution center	per 1kW			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2019	LOCAL	ecoinvent		EN15804+ A1	-
Doors with wooden frame, interior		DONNEE PAR DEFAULT	DED	INIES	INIES_DPO R20180830_104138, 8591	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	france	ecoinvent, ELCD		EN15804+ A1	EN15804+ A1
Double metal door (for technical premises, cellars, service ...)	ép.42mm	DONNEE PAR DEFAULT	DED	INIES	INIES_DBL O20181113_151608, 8773	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	france	ecoinvent, ELCD		EN15804+ A1	EN15804+ A1
Drainage system, PP, per m2 GFA	0.20 kg/m2			One Click LCA	-	Ruuska et al. 2013. Rakennusmateriaalien merkitys rakentamisen ympäristövaikutusten kentässä. VTT.	EN15804	Internally verified	2016	LOCAL	GaBi		EN15804	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Dried lumber from spruce or pine wood	474 kg/m ³ , moisture content 18 %		Puutuoteteo Ilisuus	RTS	RTS_27_19	RTS EPD YMPÄRIST ÖSELOSTE , nro. RTS_27_19 Suomalainen kuivattu sahatavara kuusi- tai mäntypuusta	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	finland	ecoinvent	474	RTS PCR protocol: EPDs published by the Building Information Foundation RTS sr (2016)	Only with EN15804
Drinking water supply piping network, per m ² GIFA (residential buildings)				One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2019	LOCAL	ecoinvent		EN15804+ A1	-
EPS Insulation	T: 10-2400 mm, 600 x 1200 mm, 0.031 W/m ² K, 16 kg/m ³		EPS-gruppen	EPD Norge	NEPD-1236-244-EN	EPD Lavlambda EPS 80 isolasjon (trykkklasse 80) EPS-gruppen	EN15804+ A1	Third-party verified (as per ISO 14025)	2017	norway, sweden	ecoinvent	16	NPCR 012 Insulation materials, rev1, 10/2/2012	Only with EN15804
Electric elevator elements (cabin and others), complete system	5034kg, charge max. = 2000kg	DONNEE PAR DEFAULT	DED	INIES	INIES_DEL É20190910_133359, 12312	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	france	ecoinvent		EN15804+ A1	EN15804+ A1
Electric radiator	1 kW		MDEGD	INIES	INIES_DC ON201802 23_144705, 7983	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	france	ecoinvent		EN15804+ A1	EN15804+ A1

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Electricity distribution system, cabling and central, for all building types	per m2 GFA			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2019	LOCAL	ecoinvent		EN15804+ A1	-
Emulsion matt paint for allround interior use	Pigment: Lightfast Pigments, binder: PVA Copolymer emulsion , solvent: Water, 1.443 kg/l, 18m2/l, 0.16 kg/m2	Supermatt White, Almond White, Gardenia, Magnolia, Light Base, Medium Base	Dulux Trade	MRPI	1.1.00023.2 017	EPD Dulux Trade Supermatt	EN15804+ A1	Third-party verified (as per ISO 14025)	2017	unitedKingdom	ecoinvent		EN15804+ A1	-
Excavation works		kg or m3 of removed masses	Required for IMPACT calculations	One Click LCA	-		EN15804	Internally verified	2013	unitedKingdom	ecoinvent	1760	EN15804	
Fiber optic cable, French average			MDEGD	INIES	INIES_DFIB 20180223_1 60619, 7987	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	france	ecoinvent		EN15804+ A1	EN15804+ A1
Fire damper	6.41 kg/unit	FR90	Wildeboer Bauteile	IBU	EPD-WWB-20180132-ICC1-DE	EPD Brandschutz klappe FR90 Wildeboer Bauteile GmbH	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	germany	GaBi		PCR Brandschutz klappen und Brandschutz ventile und Entrauchung sklappen, 05/2015	Only with EN15806

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Galvanized steel bicycle shelters	76.7 kg/unit	DONNEE PAR DEFAUT	DED	INIES	INIES_DAB R20190326_161213, 10345	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	france	ecoinvent		EN15804+ A1	EN15804+ A1
Gypsum plaster	1100 kg/m3		Bundesverband der Gipsindustrie	IBU	EPD-BVG-20140073-IAG1-DE	Oekobau.dat 2017-I, EPD GIPSPUTZ Bundesverband der Gipsindustrie e.V.	EN15804+ A1	Third-party verified (as per ISO 14025)	2014	germany	GaBi	1100	PCR Mineralische Werkmörtel, 10/2012	Only with EN15804
Gypsum plaster board, regular, generic	6.5-25 mm (0.25-0.98 in), 10.725 kg/m2 (2.20 lbs/ft2) (for 12.5 mm/0.49 in), 858 kg/m3 (53.6 lbs/ft3)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	858.0281	EN15804+ A1	-
Gypsum plasterboard, fire resistant	12.5 mm, 12.22 kg/m2, 996 kg/m3, L = 0.25 W/Mk, Fire resistance class = A2-d0, s1	12.5mm Gyproc Habito.	British Gypsum	International EPD System	S-P-01524	EPD 12.5mm Gyproc Habito	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	unitedKingdom	ecoinvent		PCR 2012:01 Construction products and Construction services, ver. 2.2, 30/05/2017	Only with EN15804
Gypsum plasterboard, fire resistant	15.4x900/1200 mm, 12.7 kg/m2	PROTECT F, GFE/GF15	Gyproc	International EPD System	S-P-00389	EPD for Gyproc Protect F FireBoard	EN15804+ A1	Third-party verified (as per ISO 14025)	2016	sweden	ecoinvent	825	PCR 2012:01 Construction Products and	Only with EN15804

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
													Construction services, ver. 2.0	
Gypsum plasterboard, moisture resistant, with square edges	12.5/15 mm, 696.8 kg/m ³ , 10µ water vapour resistance	Gyproc Moisture Resistant	British Gypsum	International EPD System	S-P-00507	EPD for Gyproc Moisture Resistant	EN15804+A1	Third-party verified (as per ISO 14025)	2013	United Kingdom	ecoinvent	696.8	PCR 2012:01 Construction Products and Construction services, ver. 1.2, IBU PCR Guidance Texts for Building-Related Products and services, Part B: Requirements on the EPD for Plasterboard version 1.5	Only with EN151404
Heat distribution piping network, per m ² heated area, all building types				One Click LCA	-	One Click LCA	EN15804+A1	Internally verified	2019	LOCAL	ecoinvent		EN15804+A1	-
Heat distribution system				One Click LCA		One Click LCA generic				LOCAL	Ecoinvent			

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
						construction definitions								
Hollow core concrete slabs, generic	C30/37 (4400/5400 PSI), 0% (typical) recycled binders in cement (300 kg/m3 / 18.72 lbs/ft3), incl. reinforcement			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	1400	EN15804+ A1	-
Hot dip galvanized steel	0.73 mm, 5.72 kg/m2			OKOBAUD AT	-	Oekobau.dat 2020-II	EN15804+ A1	Third-party verified (as per ISO 14025)	2020	germany	GaBi	7850	EN15804+ A1	-
Hot-dip galvanized steel sheets	recommended sheet steel thickness range: 0.4-3.0 mm (0.015-0.12 in), zinc coating: 20 µm (787.4 µin) (0.28kg/m2 / 0.057 lbs/ft2 sheet steel)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2019	LOCAL	ecoinvent	7850	EN15804+ A1	-
In-situ concrete				One Click LCA		One Click LCA generic				europe	Other			

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
slab assembly						construction definitions								
Insulation, rock wool/mineral wool, blowing wool			Paroc	EPD Norge	NEPD0026 7E	EPD Paroc Insulation, product group with density 70-120 kg/m ³ , Paroc AB	EN15804+ A1	Third-party verified (as per ISO 14025)	2014	finland, sweden	GaBi	35	NPCR 012 Insulation materials, rev1. LCA of PAROC stone wool produced at Scandinavian plants.	Only with EN15804
Interior sun shade, louvre	1.2 kg/m ²		MHZHachtel	ift Rosenheim	EPD-ISZ-37.0	EPD Innenliegender Sonnenschutz	EN15804+ A1	Third-party verified (as per ISO 14025)	2020	germany	GaBi		Sonnenschutz und Abschlüsse (auch Verdunklungssysteme) PCR-SS-2.1:2018.	Only with EN15804
Interior wooden door, with wooden frame	1.03 X 2.09 m, 52.59 kg/m ² , U = 1.0 - 2.5 W/m ² K, Acoustic insulation = 28 - 50 dB, Fire resistance class = EI/E15 - EI/E90, biogenic CO ₂ not	Menuiseries des fabricants membres d ATF BPT remplissant les conditions du cadre de validité	Fédération de l Industrie Bois Construction	INIES	INIES_CBL O20190722_112115, 11194	FDES	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	france	ecoinvent		EN15804+ A1	EN15804+ A1

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
	subtracted (for CML)													
Internal wall system with steel studs, gypsum plaster board, glass wool insulation	46.23 kg/m ² , glass wool: 160 mm, 4.55 m ² K/W	Cloison Megastil® simple 310 / 200 entraxe 2,4m - hauteur 8,4m avec 1 Placoplatre ® BA 25	PLACOPLATRE	INIES	INIES_ICL O20191217_165129, 26508	FDES	EN15804+ A1	Third-party verified (as per ISO 14025)	2021	france	ecoinvent		EN15804+ A1	EN15804+ A1
LED lighting	P = 40W	DONNEE PAR DEFAUT	DED	INIES	INIES_DRÉ G20191220_143840, 13721	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	france	ecoinvent		EN15804+ A1	EN15804+ A1
Laminate flooring	6-12mm, 6.4-10.803kg/m ² , 900-920kg/m ³		Fritz EGGER	IBU	EPD-EGG-20180194-IBC1-DE	EPD Egger Laminate Flooring Fritz EGGER GmbH & Co. OG Holzwerkstoffe	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	germany	GaBi		PCR Floor coverings, 02/2018	Only with EN15804
Lightweight concrete block, with expanded clay aggregate, generic	650 kg/m ³ (40.6 lbs/ft ³), 18 kg/block (39.7 lbs/block), 0.5x0.3x0.185 mm (0.019x0.012x0.007 in)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	650	EN15804+ A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Masonry cavity wall with partial fill and aircrete block + plasterboard inner leaf, U-value 0.16	(Part L 2016)			One Click LCA		Part L 2016				unitedKingdom	Other			
Masonry mortar/facing wall mortar/mortar with special properties	1500 kg/m3, EPD coverage: >1500 kg/m3		IWM	IBU	EPD-IWM-20130239-IBG1-DE	Oekobau.dat 2017-I, EPD Mineralische Werkmörtel: Mauerwerk I Vormauermörtel/Mörtel mit besonderen Eigenschaften Industrieverband WerkMörtel e.V. (IWM)	EN15804+A1	Third-party verified (as per ISO 14025)	2014	germany	GaBi	1500	PCR Mineralische Werkmörtel, 10/2012	Only with EN15804
Multifunctional steel door, product group 1	1000mm x 2125 mm	H 3 D, H 3 OD, H 3 VM, H 3 KT, RS 55, D 65 OD, D 65	Hörmann	ift Rosenheim	EPD-MT-0.1.1	EPD Multifunktionsstüren aus Stahl Hörmann KG Freisen	EN15804+A1	Third-party verified (as per ISO 14025)	2015	germany	GaBi		PCR Dokument Türen und Tore - PCR-TT-1.1 : 2013	Only with EN15804
One storey timber staircase	2587x225x905 mm, 41.9 deg		Stair Craft	-	-	EPD One storey timber staircase	EN15804+A1		2014	unitedKingdom	-		EN15804+A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
						STAIRCRAFT (Midlands) Ltd								
PIR insulation boards, aluminium foil faced	<= 160 mm, L = 0.0215 W/mK, dens. = 32 kg/m3	Various products	Xtratherm	BRE	BREG EN EPD 000226	EPD Xtratherm UK Ltd	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	unitedKingdom	ecoinvent	32	EN15804+ A1	-
Pitched roof, timber truss	P2 R60 (3...8 krs.), U ≤ 0,09 W/m2K (Apartment/ office building)			One Click LCA		One Click LCA generic construction definitions				finland	Other			
Plasterboard, filled, sanded and painted				One Click LCA		One Click LCA generic construction definitions				europa	Other			
Plastic vapour control layer	0.2 mm		Tommen Gram	EPD Norge	NEPD-341-230-NO	Gram Dampspærre, Tommen Gram Folie AS (2015)	EN15804+ A1	Third-party verified (as per ISO 14025)	2015	norway	ecoinvent	925	NPCR 022 Roof waterproofing, rev1, 12/2012	Only with EN15804
Plywood, generic	4-50 mm (0.16-1.97 in), 620 kg/m3 (38.7 lbs/ft3)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	620	EN15804+ A1	-
Polyethylene pipe	5 m, d=110 mm, 7.22 kg/unit		Geberit International	-	GEB_EPDP_6178683915	EPD Geberit PE pipes	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	europa	ecoinvent		EN15804+ A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Profiled steel decking for composite floor slabs/decking	1mm sheet thickness	ComFlor 60 1.0mm	Tata Steel	TATA Steel	EPD-TS-2018-007	EPD ComFlor 60 1.0mm steel structural floor deck	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	unitedKingdom, unitedArabEmirates	GaBi		EN15804+ A1	-
Rainwater drainage pipe, PVC	diamètre 100 mm	DONNEE PAR DEFAUT	DED	INIES	INIES_DDES20191220_142235, 26249	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2021	france	ecoinvent		EN15804+ A1	EN15804+ A1
Ready-mix concrete, normal strength, generic	C32/40 (4600/5800 PSI) with CEM I, 0% recycled binders (320 kg/m ³ ; 20 lbs/ft ³ total cement)			One Click LCA	-	One Click LCA	EN15804+ A1, EN15804+ A2	Internally verified	2020	LOCAL	ecoinvent	2400	EN15804+ A1, EN15804+ A2	-
Ready-mix concrete, normal-strength, generic	C30/37 (4400/5400 PSI), 10% (typical) recycled binders in cement (300 kg/m ³ / 18.72 lbs/ft ³)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	2400	EN15804+ A1	-
Ready-mix concrete, normal-strength, generic	C30/37 (4400/5400 PSI), 0% recycled binders in			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	2400	EN15804+ A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
	cement (300 kg/m3 / 18.72 lbs/ft3)													
Ready-mix concrete, normal-strength, generic	C40/50 (5800/730 0 PSI), 0% recycled binders in cement (400 kg/m3 / 24.97 lbs/ft3)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	2400	EN15804+ A1	-
Red brick, average production, UK	215 mm x 102.5 mm x 65 mm, 2.13 kg/unit, 1485 kg/m3		Brick Development Association (BDA) Ltd (2019)	BRE	BREG EN EPD0000 02, issue 04	EPD BDA Generic Brick, The Brick Development Association	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	unitedKingdom	ecoinvent	1485	EN15804+ A1	-
Reinforcement steel (rebar), generic	60% recycled content, A615			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	7850	EN15804+ A1	-
Reinforcement steel (rebar), generic	90% recycled content, A615			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	7850	EN15804+ A1	-
Reinforcement steel (rebar), generic	97% recycled content (typical), A615			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	7850	EN15804+ A1	-
Rock wool insulation panels,	L = 0.039 W/mK, R = 2.56			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	200	EN15804+ A1	-

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
unfaced, generic	m2K/W (15 ft2°Fh/BTU), 200 kg/m3 (12.49 lbs/ft3) (applicable for densities: 150-200 kg/m3 (9.36-12.49 lbs/ft3)), Lambda=0.039 W/(m.K)													
Rock wool insulation panels, unfaced, generic	L = 0.035 W/mK, R = 2.89 m2K/W (16 ft2°Fh/BTU), 50 kg/m3 (3.12 lbs/ft3) (applicable for densities: 25-50 kg/m3 (1.56-3.12 lbs/ft3)), Lambda=0.0346 W/(m.K)			One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2018	LOCAL	ecoinvent	50	EN15804+ A1	-
Sanitary ceramics	washbasins: 16.3 kg, bidets: 21.7 kg, toilets: 27.1 kg, urinals: 17.9		DURAVIT AG	IBU	EPD-DUR-20150032-IBC1-EN	EPD Sanitary ceramic DURAVIT AG,	EN15804+ A1	Third-party verified (as per ISO 14025)	2015	germany	GaBi		PCR Sanitärprodukte aus Verbundwerkstoffen, 09/2017	Only with EN15804

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
	kg, kitchen sinks: 23.2 kg, cisterns: 12.4 kg					Oekobau.dat 2017-I								
Self levelling mortar, for floors, walls and overhead appl.	3-50 mm, 1400 kg/m3	Pericret	PCI Augsburg	IBU	EPD-PCI-20160262-IBE1-DE	Oekobau.dat 2017-I, EPD Ausgleichsmörtel PCI Pericret für Boden, Wand und Decke PCI Augsburg GmbH	EN15804+ A1	Third-party verified (as per ISO 14025)	2016	germany	GaBi	1400	PCR Mineralische Werkmörtel, 07/2014	Only with EN15804
Sewage water drainage piping network, per m2 GIFA (residential buildings)				One Click LCA	-	One Click LCA	EN15804+ A1	Internally verified	2019	LOCAL	ecoinvent		EN15804+ A1	-
Single leaf concrete cladding panel	2380 kg/m3		British Precast Concrete Federation	IBU	EPD-BPC-20180013-CCD1-EN	EPD UK manufacture d single leaf concrete cladding panel Produced by members of British Precast Architectural and Structural a	EN15804+ A1	Third-party verified (as per ISO 14025)	2018	unitedKingdom	GaBi	2380	PCR Pre-cast concrete components, 07/2014	Only with EN15804

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
						product group of the British Precast Concrete Federation								
Single skin wall from bricks, including mortar	with Mortar 1:3 cement:sand mix (Using CEM I cement)			ICE	-	ICE database August 2019, V3.0	EN15804+ A1	Self declared	2019	unitedKingdom	-		EN15804+ A1	-
Smoke extraction grill and flap	surface libre=2 à 12.5dm2	DONNEE PAR DEFAUT	DED	INIES	INIES_DGR I20191220_1 43829, 13719	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2019	france	ecoinvent		EN15804+ A1	EN15804+ A1
Sprinkler system, room area m2				One Click LCA	-	One Click LCA	ISO14040	Internally verified	2013	LOCAL	ecoinvent		-	Only with EN15804
Stainless steel bicycle rack	1.3 kg/unit	DONNEE PAR DEFAUT	MINISTERE DE L'ENVIRONNEMENT, DE L'ENERGIE ET DE LA MER - MINISTERE DU LOGEMENT ET DE L'HABITAT DURABLE	INIES	INIES_DRA T20200616 _135407, 18619	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2020	france	ecoinvent		EN15804+ A1	EN15804+ A1

Resource name	Technical specification	Product	Manufacturer	EPD program	EPD number	Environment data source	Standard	Verification	Year	Country	Upstream database	Density	Product category rules (PCR)	Notes about PCR
Steel pipes for heating and cooling system	DN=65mm, 6.63 kg/m	DONNEE PAR DEFAULT	DED	INIES	INIES_DTU B20200414_112541, 16398	MDEGD_F DES	EN15804+ A1	Third-party verified (as per ISO 14025)	2020	france	ecoinvent		EN15804+ A1	EN15804+ A1

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