

Katy Venables

From: Rian Kealey <Rian.Kealey@regal-london.co.uk>
Sent: 09 January 2024 13:50
To: Katy Venables
Cc: Graeme Whyte
Subject: RE: Chalk Farm WLC

Hi Katy,

Yes I can confirm

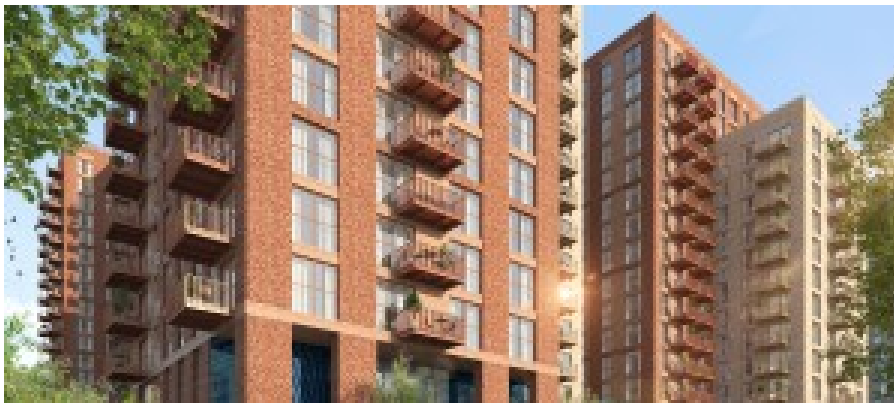
Rian



Rian Kealey
Senior Cost Planner

t: +44 (0)20 7328 7171
m: 07708902676
e: Rian.Kealey@regal-london.co.uk
w: www.regal-london.co.uk
4-5 Coleridge Gardens, London, NW6 3QH

IN PARTNERSHIP WITH



From: Katy Venables <katy.venables@whitecode.co.uk>
Sent: Tuesday, January 9, 2024 11:52 AM
To: Rian Kealey <Rian.Kealey@regal-london.co.uk>
Cc: Graeme Whyte <graeme.whyte@regal-london.co.uk>
Subject: Chalk Farm WLC

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Hi Rian

Please see attached the materials list collated from the RFI's. Please can you confirm that the listed materials account for 95% of the construction materials. I need to provide this confirmation to the GLA.

Kind regards
Katy



WHITECODE
CONSULTING

Katy Venables
Sustainability Consultant

☎ 01322476714

✉ katy.venables@whitecode.co.uk

T: +44 1322 289

W: www.whitecode.co.uk



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Section	Resource	Quantity	Unit	Comment	Service life	EOL Process	Construction	Data Source
1.1.1 Standard Foundations	Ready-mix concrete, normal-strength, generic, C40/50 (5800/7300 PSI), 20% recycled binders in cement (400 kg/m3 / 24.97 lbs/ft3)	3245000	kg	Piles and Pile Caps	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 400 kg / m3	Ready-mix concrete for structures (beams, columns, piling)	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	208000	kg	Piles and Pile Caps	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
1.1.3 Lowest Floor Construction	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 20% GGBS content in cement (300 kg/m3 / 18.72 lbs/ft3) (One Click LCA)	1420000	kg	Lowest Floor	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 400 kg / m3	Ready-mix concrete, high strength	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	70000	kg	Lowest Floor	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
	EPS insulation panels, graphite, L= 0.037 W/mK, R= 2.7 m2K/W, 100 mm, 1.5 kg/m2, 15 kg/m3, compressive strength 85kPa, 45% recycled polystyrene, Lambda=0.037 W/(m.K) (One Click LCA)	2929.5	kg	Lowest Floor	60	Plastic-based material incineration	EPS (expanded polystyrene) insulation	One Click LCA
1.1.5 Basement Retaining Walls	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 20% GGBS content in cement (300 kg/m3 / 18.72 lbs/ft3) (One Click LCA)	1022000	kg	Basement floor and walls	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 500 kg / m3	Ready-mix concrete for external walls and floors	One Click LCA
	Bentonite membrane for waterproofing of underground walls and foundations, 5.98 kg/m2, Membrane bentonitique pour l' étanchéité et l' imperméabilisation	11678.94	kg	Basement floor and walls	60	Plastic-based material incineration	Plastic membranes	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	50000	kg	Basement floor and walls	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
2.1 Frame	Ready-mix concrete, normal-strength, generic, C40/50 (5800/7300 PSI), 30% recycled binders in cement (400 kg/m3 / 24.97 lbs/ft3)	519000	kg	Concrete Columns	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 500 kg / m3	Ready-mix concrete, high strength	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	45000	kg	Concrete Columns	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
2.2 Upper Floors	Ready-mix concrete, normal-strength, generic, C40/50 (5800/7300 PSI), 30% recycled binders in cement (400 kg/m3 / 24.97 lbs/ft3)	6478700	kg	Beams and floors	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 500 kg / m3	Ready-mix concrete, high strength	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	176360	kg	Beams and floors	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
2.3 Roofs	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 30% recycled binders in cement (300 kg/m3 / 18.72 lbs/ft3)	810000	kg	Roof slab - Pells	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 400 kg / m3	Ready-mix concrete for structures (beams, columns, piling)	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615	24300	kg	Roof slab - Pells	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
	EPS insulation panels, graphite, L= 0.037 W/mK, R= 2.7 m2K/W, 100 mm, 1.5 kg/m2, 15 kg/m3, compressive strength 85kPa, 45% recycled polystyrene, Lambda=0.037 W/(m.K) (One Click LCA)	2929.5	kg	Roof - area confirmed by RK	60	Plastic-based material incineration	EPS (expanded polystyrene) insulation	One Click LCA
	Bitumen root waterproofing system, multi-layer, fully torched, top: 3.8 mm, 4.8 kg/m2, bottom: 3.1 mm, 3.9 kg/m2 (European Waterproofing Association)	16991.1	kg	Roof - area confirmed by RK	30	Landfilling (for inert materials)	Bitumen and other roofing	One Click LCA EPD Flexible Bitumen Sheets for Roof Waterproofing European Waterproofing Association (EWA)
2.4.Stairs and ramps	Reinforcement steel (rebar), generic, 90% recycled content, A615	9282	kg	5% of floor slab as per email from Pells	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
	Ready-mix concrete, normal-strength, generic, C30/37 (4400/5400 PSI), 10% (typical) recycled binders in cement (300 kg/m3 / 18.72 lbs/ft3)	340970	kg	5% of floor slab as per email from Pells	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	Ready-mix concrete for external walls and floors	One Click LCA

2.5.External walls	Cement bonded wood particle board, 10 mm, 13.5 kg/m ² , 1350 kg/m ³ , CENTRIS-Basic (CIDEM Hranice)	80946	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	30	Wood incineration	Particleboard	Environmental Product Declaration Cement-bondede particleboards CETRIS
	Facing clay bricks,	140688.83	kg	Loadbearing Brickwork Wall - DSDHA	60	Brick/stone crushed to aggregate (for sub-base layers)	Brick, common clay brick	FDES
	Gypsum board, windproofing, 9.5 mm, 7.2 kg/m ² , 757.89 kg/m ³ , Windliner-X/Utvendig-X type EH2 (GU-X) (Norgips)	56804.21	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	30	Gypsum recycling	Specialty gypsum board	EPD Norgips Windliner-X/Utvendig-X type EH2 (GU-X)Norgips Norge AS
	Gypsum interior plaster, gross density: 900.0 kg/m ³	16189.2	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	30	Gypsum recycling	Gypsum plaster (interior applications)	ÖKOBAUDAT 2021-II (25.06.2021)
	Polyethylene vapour barrier membrane, 0.15 mm, 0.14 kg/m ² (One Click LCA)	1119.26	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	30	Plastic-based material incineration	Plastic membranes	One Click LCA
	Reinforcement steel (rebar), generic, 97% recycled content (typical), A615 (One Click LCA)	117000	kg	External Walls from Pells	60	Steel recycling	Reinforcement for concrete (rebar)	One Click LCA
	Ready-mix concrete, normal strength, generic, C32/40 (4600/5800 PSI) with CEM II/B-V, 30% GGBS content in cement (300 kg/m ³ ; 18.7 lbs/ft ³ total cement) (One Click LCA)	1688000	kg	External Walls from Pells	60	Concrete crushed to aggregate (for sub-base layers), Portland Cement	Ready-mix concrete for external walls and floors	One Click LCA
	Rock wool insulation panels, L=0.035 W/mK, R=4.29 m ² k/W, 150 mm, 9 kg/m ² , 60 kg/m ³ , Lambda=0.035 W/(m.K), Rainscreen Duo Slab 150mm (ROCKWOOL,	48899.52	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	60	Landfilling (for inert materials)	Rock wool insulation	EPD ROCKWOOL® stone wool product: FLEXI 1200x600x100
	Rock wool insulation panels, L=0.037 W/mK, R=2.63 m ² k/W, 100 mm, 3.3 kg/m ² , 33 kg/m ³ , Lambda=0.037 W/(m.K), FLEXI 1200x600x100 (ROCKWOOL, UK	35859.65	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	60	Landfilling (for inert materials)	Rock wool insulation	EPD ROCKWOOL® stone wool product: FLEXI 1200x600x100
	Steel purlins and framing, 7850 kg/m ³ (Voestalpine Metsec plc)	1118389.5	kg	Loadbearing Brickwork Wall & Metsec SFS Infill Wall - DSDHA	60	Steel recycling	Structural steel and steel profiles	EPD Purlins and Framing Voestalpine Metsec plc
Structural steel profiles, generic, 60% recycled content, I, H, U, L, and T sections, S235, S275 and S355	146245.5	kg	Metsec SFS Infill Wall - DSDHA	60	Steel recycling	Structural steel and steel profiles	One Click LCA	
Aluminium extrusion mill finished profiles (Hydro Extrusion Italy srl)	358506	kg	Extruded fin	60	Aluminium recycling	Aluminium	EPD ALUMINIUM PROFILES IMPLEMENTED WITH HYDRO RESTORE INNOVATIVE, FELTRE BILLET PRODUCED BY HYDRO EXTRUSION ITALY SRL ORNAGO AND FELTRE SITESEPD ALUMINIUM PROFILES IMPLEMENTED WITH HYDRO RESTORE INNOVATIVE, FELTRE BILLET PRODUCED BY HYDRO EXTRUSION ITALY SRL	
2.5.3.Solar / Rain screening	Ceramic tiles, 20 kg/m ² (RAK Ceramics P.J.S.C)	16220	kg	Glazed Tile rain screen	10	Brick/stone crushed to aggregate (for sub-base layers)	Wall and floor tiles	EPD Ceramic & Porcelain Tiles
	Terracotta façade panel, 35 kg/m ² , Zéphir Evolution 20, Zéphir Evolution 25, Zéphir Evolution 30 (yc modline 1 et modline 2), Zéphir Evolution 40 (FERREAL)	145110	kg	Profiled terracotta panels	10	Brick/stone crushed to aggregate (for sub-base layers)	Wall and floor tiles	FDES
2.6.1.External Windows	Aluminium frame window triple glazed, non-operable, 0% recycled aluminium, 1.48 m x 2.18 m, 30.7 kg/m ² (One Click LCA)	40317.76	kg	DSDHA	30	Glass-containing product recycling (80 % glass)	Aluminium frame windows	One Click LCA

2.6.2.External doors	Aluminium framed double glazed doors, per m2, 79.5% glass, 15.7% aluminium, 2.2% steel, 44 kg/m2, width:1.23m, height:2.18m, 6mm toughened and 8.8mm laminated glass. Edge Symmetry (Optima)	8712	kg	DSDHA	30	Glass-containing product recycling (80 % glass)	Aluminium-framed glass doors	EPD Aluminium Framed Double Glazed Doors
2.7.Internal walls and partitions	Glass wool insulation panels, unfaced, generic, L = 0.031 W/mK, R = 3.23 m2K/W (18 ft2°Fh/BTU), 25 kg/m3 (1.56 lbs/ft3), (applicable for densities: 0-25 kg/m3 (0-1.56 lbs/ft3)), Lambda=0.031 W/(m.K)	5928.75	kg	Metsec C Stud Independent Twin Frame Partition - Party walls & Common Walls - DSDHA	60	Landfilling (for inert materials)	Glass wool insulation	One Click LCA
	Glass wool/mineral wool insulation, acoustic partition roll, L = 0.039W/mK, 5994 T: 50-65 mm, 18 kg/m3, APR1200 (Isover)	5994	kg	Metsec Studwork Frame. Internal dwelling walls - DSDHA	60	Landfilling (for inert materials)	Glass wool insulation	EPD Acoustic Partition Roll (APR1200) 50 and 65 mm, Isover Saint Gobain 2015
	Gypsum interior plaster, gross density: 900.0 kg/m3	55582.2	kg	Metsec C Stud Independent Twin Farme Partition - Party walls; Common walls; Metsec Studwork Frame. Internal dwelling walls -	30	Gypsum recycling	Gypsum plaster (interior applications)	ÖKOBAUDAT 2021-II (25.06.2021)
	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)	30072	kg	Metsec C Stud Independent Twin Farme Partition - Party walls; Common walls; Metsec Studwork Frame. Internal dwelling walls -	30	Gypsum recycling	Regular gypsum board	One Click LCA
	Structural steel profiles, generic, 60% recycled content, I, H, U, L, and T sections, S235, S275 and S355	28480.73	kg	Metsec C Stud Independent Twin Farme Partition - Party walls; Common walls; Metsec Studwork Frame. Internal dwelling walls -	60	Steel recycling	Structural steel and steel profiles	One Click LCA
2.8 Internal doors	Doors with wooden frame, interior, Portes intérieures de communication avec huisserie bois (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFALUT)	15756	kg	55mm thick, Solidcore timber doorset.	30	Wood-containing product incineration (80% wood)	Wood-framed glass doors	MDEGD_FDES
	Ceramic floor tile, 10 mm, average density 2000 kg/m3 (Mosa)	1088	kg	Floor type 03 - Tile Floor	10	Brick/stone crushed to aggregate (for sub-base layers)	Wall and floor tiles	EPD Vloertegelcollectie Koninklijke Mosa
	Gypsum plasterboard, 12.5 mm, 8.985 kg/m2 (average product weight) (Etex Building Performance)	69716.41	kg	Knauf Metal Furring (MF) Suspended Ceiling system. Faced in 15mm Knauf Plasterboard	30	Gypsum recycling	Regular gypsum board	EPD GTEC Plasterboard
	Metal ceiling membranes with acoustic fleece, 0.5 mm, 3.62 kg/m2 (Knauf Ceiling Solutions GmbH & Co. KG)	23406.92	kg	Knauf Metal Furring (MF) Suspended Ceiling system. Faced in 15mm Knauf Plasterboard	30	Steel recycling	Suspended ceiling systems	EPD Metal Ceiling Membranes (0.5 mm, with acoustic fleece)

3.Internal finishes	Self-levelling screed, 1 mm, 2.25 kg/m2, Gyvlon® EXCELIO (Anhydritec)	1252575	kg	Floor type 01 - Painted Screed; Floor type 02 - Clay Sets to Lobby; Floor type 03 - Tile Floor; Floor type 04 - Carpet Floor	30	Cement/mortar use in a backfill	Leveling screeds (for floors)	EPD Gyvlon EXCELIO Flowing Screed
	Water-based epoxy floor paint, 1.44 kg/l, 6 m2/l, 0.48 kg/m2, Dulux Trade High Performance Floor Paint (AkzoNobel)	980.34	kg	Floor type 01 - Painted Screed	10	Landfilling (for inert materials)	Paints, coatings and lacquers	EPD DULUX TRADE HIGH PERFORMANCE FLOOR PAINT
	Emulsion for interior use with recycled paint content, 0.168 kg/m2, 1.4 kg/l, Dulux Trade Evolve Matt (AkzoNobel, plant Prudhoe)	1553.83	kg	Walls	15	Landfilling (for inert materials)	Paints, coatings and lacquers	EPD RTS EPD, Water-borne interior paints
	Waterproof, protective, flexible coating, 1.5 kg/l, Lastogum (PCI Augsburg)	1641	kg	Floor type 02 - Clay Sets to Lobby; Floor type 03 - Tile Floor	10	Landfilling (for inert materials)	Sealants (silicone and others)	Oekobau.dat 2017-I, EPD Wasserdichte, flexible Schutzschicht PCI Lastogum unter Keramikbelägen in Dusche und Bad PCI
	Tile mortar, for interior floors and walls, 0.45 kg/m2, Weberbond lino comfort, Weberbond contact, Weberbond LVT, Weberbond grip, Weberbond primo	492.3	kg	Floor type 02 - Clay Sets to Lobby; Floor type 03 - Tile Floor	10	Cement/mortar use in a backfill	Tile adhesive	EPD WEBERBOND
	Tufted carpet tile with nylon 6.6 pile material and bitumen backing, 4.4 kg/m2, maximum surface pile weight 400 g/m2 (One Click LCA)	35098.8	kg	Floor type 04 - Carpet Floor	7	Plastic-based material incineration	Carpet flooring	One Click LCA
	Wall bricks slips, 240 x 71 x 14 mm, 24 kg/m2, 2100 kg/m3 (Bundesverband der Deutschen Ziegelindustrie)	17236.8	kg	Floor type 02 - Clay Sets to Lobby	60	Brick/stone crushed to aggregate (for sub-base layers)	Brick, common clay brick	EPD Riemchen
	Acrylic bathtub, 14.5 kg/unit, Allibert, Aquarine (NEW BATH)	1305	kg	Bath - assume one per private resi	20	Landfilling (for inert materials)	Sanitary ware	FDES
Acrylic shower tray, 32 kg/unit 120x90 cm, Receveur de douche acrylique [Long. 120 cm Larg. 90 cm] (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	13856	kg	Shower tray - assume one per dwelling plus additional for 2 and 3 bed	20	Landfilling (for inert materials)	Sanitary ware	MDEGD_FDES	
Air handling unit, with heat recovery through plate heat exchanger, 10 000 m3/h (5885.8 ft3/min), 1256 kg/unit (2769 lbs/unit)	4274.27	kg		25	Metal-containing product recycling (90 % metal)	HVAC components and equipment	One Click LCA	
Air/air heat pump, ducted, 61.5 kg/unit, P= 5 kW, PAC air air gainable [P=5kW] (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	307.5	kg	Student Cores: CLADE ROWAN PROPANE - 1x SN/150, 2x SN/225 Resi Core: CLADE ROWAN PROPANE - 2x SN/150	15	Metal-containing product recycling (90 % metal)	HVAC equipment with refrigerant	MDEGD_FDES	
Corrugated plastic pipes, 0.138 kg/m, FFKuS-EM-F-105 co2ntrol (Fränkische Rohrwerke Gebr. Kirchner GmbH & Co.)	7237.44	kg		20	Plastic-based material incineration	Pipes (water, heating, sewage)	EPD FFKuS-EM-F-105 co2ntrol® FRÄNKISCHE Rohrwerke Gebr. Kirchner GmbH & Co. KG	
District heat distribution center, per 1kW	3893.58	kg		30	Metal-containing product recycling (90 % metal)	HVAC components and equipment	One Click LCA	
Drinking water supply piping network, per m2 GIFA (residential buildings)	3389.6	kg		25	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	One Click LCA	
Electric operated passenger elevator, 320 tkm life cycle, 7395 kg/unit, rated load 907-2268 kg, MonoSpace® 500 DX (Kone)	44370	kg		20	Metal-containing product recycling (90 % metal)	Elevators and escalators	EPD KONE MonoSpace® 500 DX for North America	
Electricity distribution system, cabling and central, for all building types, per m2 GFA	51408.72	kg		30	Metal-containing product recycling (90 % metal)	HVAC components and equipment	One Click LCA	
Emergency evacuation lighting, 0.604 kg/unit, 0 The environmenal data is representative of the following products : <cat.number list> (LEGRAND)	178.88	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP	
Fluorescent lamp, T8-18W, 0.07 kg/unit	56.21	kg		15	Metal-containing product recycling (90 % metal)	Lighting	ÖKOBAUDAT 2021-II (25.06.2021)	
Heat distribution piping network, per m2 heated area, all building types	2402.97	kg		30	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	One Click LCA	
Interior LED projector, P= 14 à 30 W, Projecteur intérieur LED (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	3743.69	kg		15	Metal-containing product recycling (90 % metal)	Lighting	MDEGD_FDES	

5.0 Services

Interior projector LED 14 W, Projecteur intérieur LED 14W (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	590.2	kg		15	Metal-containing product recycling (90 % metal)	Lighting	MDEGD_FDES
Junction box, 0.154 kg/unit, IP55 100x100 (B05534), B05534, B05546 (Hager SE)	315.35	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP
Lighting management sensors, 0.31 kg/unit, 0 488 06 (LEGRAND)	1004.65	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP
Low voltage cable, Section conductrice de 5 mm ² à 120 mm ² , Câble basse tension 0,6/1kV (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DFFAULT)	21397.7	kg		15	Metal-containing product recycling (90 % metal)	Cables	MDEGD_FDES
Photovoltaic polycrystalline panel, per m ² , 14.5 kg/m ² , 210 Wp (One Click LCA)	2552	kg	86 PV 1754mm x 1164mm	20	Metal-containing product recycling (90 % metal)	Energy production systems from renewable	One Click LCA
Power cable connectors, Connecteur permettant de rassembler des câbles de transport d'énergie (DONNEE ENVIRONNEMENTALE	1017.1	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	MDEGD_FDES
Recessed box for electrical equipment, 0.031 kg/unit, EMX 101340 EMX 101440 EMX 101150 (REXEL)	210.64	kg			Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP
Sanitary ceramics including washbasins, toilets, urinals, cisterns and kitchen sinks, Washbasins 800x450x170 mm 16 kg/unit, toilets	17709	kg	WC and wash basin - assume 1 per dwelling	20	Landfilling (for inert materials)	Sanitary ware	EPD Sanitary ceramic DURAVIT AG
Sewage water drainage piping network, per m ² GIFA (residential buildings)	2393.88	kg		25	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	One Click LCA
Socket outlet 2P+T, 0.173 kg/unit, Plexo 2P+T - 16 A - IP55 (LEGRAND)	2320.22	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP
Ventilation ducting, per m linear, D: 63 mm (2.48 in)	3630.42	kg		40	Metal-containing product recycling (90 % metal)	HVAC components and equipment	One Click LCA
Water circulation radiator, per 1kW / unit	67865.91	kg		30	Metal-containing product recycling (90 % metal)	HVAC components and equipment	One Click LCA
Waterproof lighting, P=18 W, Luminaire étanche IP>54 (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	1024.66	kg		15	Metal-containing product recycling (90 % metal)	Lighting	MDEGD_FDES
Light switch, 0.113 kg/unit, 077001L (mécanisme) / 078801L (plaque) / 080250 (support) mécanisme : 077001L - 079201L - 079101L - plaque :	450.35	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP
Indicator lights, P=0.035W, 0.002 kg/unit, Voyants de signalisation [Puissance = 0,035W] (DONNEE ENVIRONNEMENTALE GENERIQUE PAR	0.83	kg		15	Metal-containing product recycling (90 % metal)	Lighting	MDEGD_FDES
Electrical junction box, French average, Boîte de dérivation (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	2.6	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	MDEGD_FDES
Output device, 0.382 kg/unit, TYA606E TYA606E (Hager SE)	17.05	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	PEP
Smoke detector, French average, Détecteurs de fumée (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	1205.19	kg		15	Metal-containing product recycling (90 % metal)	Electrification components and systems	MDEGD_FDES
Communication cable, 0.231 kg/m, Câble PTT 288 [14 paires] - DONNEE ENVIRONNEMENTALE PAR DEFAULT (MINISTERE DE L'ENVIRONNEMENT,	2577.78	kg		15	Metal-containing product recycling (90 % metal)	Cables	MDEGD_FDES
Flexible shower hose, 0.3 kg/unit, 28116000 AX flexible de douche métallique 1600mm 28127000 AX flexible de douche 1250mm	223.63	kg		30	Landfilling (for inert materials)	Sanitary ware	FDES
Manometers, 2.702 kg/unit, Manomètre (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	20.1	kg		30	Landfilling (for inert materials)	Water heating and handling equipment	MDEGD_FDES
Cast iron globe valves, DN = 50 mm,15kg, Robinet à soupape en fonte (DONNEE ENVIRONNEMENTALE GENERIQUE PAR DEFAULT)	278.99	kg		30	Landfilling (for inert materials)	Water heating and handling equipment	MDEGD_FDES
Brass quarter-turn valve, 6 kg/unit, diameter: 20-100 mm, Vanne quart-de-tour en laiton [DN de 20 à 100mm] (DONNEE ENVIRONNEMENTALE	120.52	kg		30	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	MDEGD_FDES
Brass quarter-turn valve, 0.3 kg/unit, diameter: 20 mm, Vanne quart-de-tour en laiton [DN = 20mm] (DONNEE ENVIRONNEMENTALE GENERIQUE	12.5	kg		30	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	MDEGD_FDES
Steel pipes for heating and cooling system, DN=65mm, 6.63 kg/m, Tube en acier noir pour usage en chauffage et climatisation (DONNEE	2377.4	kg		30	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	MDEGD_FDES
Steel pipes for heating and cooling system, DN=125mm, 13.5 kg/m, Tube en acier noir pour usage en chauffage et climatisation (DONNEE	25469.78	kg		30	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	MDEGD_FDES

	Steel pipes for heating and cooling system, DN=32mm, 3.17 kg/m, Tube en acier noir pour usage en chauffage et climatisation (DONNEE	21809.63	kg		30	Metal-containing product recycling (90 % metal)	Pipes (water, heating, sewage)	MDEGD_FDES
	Waterborne alkyd modified acrylic paint for industrial painting of metals, anti-corrosive, 1.2 kg/L, solids/weight 50%, spreading rate 5-10 m2/L, Hot dip galvanized steel, 0.73 mm, 5.72 kg/m2	410.66	kg		30	Landfilling (for inert materials)	Paints, coatings and lacquers	EPD FONTECRYL SC 50, FONTECRYL SC-EF 50 TIKKURILA GROUP
	Hot dip galvanized steel, 0.73 mm, 5.72 kg/m2	1082.37	kg		30	Steel recycling	Hot-dip galvanized/zinc coated steel	ÖKOBAUDAT 2021-II (25.06.2021)
	Stainless steel sheet, 7900.0 kg/m^3	1886.42	kg		30	Stainless steel recycling	Stainless steel	ÖKOBAUDAT 2021-II (25.06.2021)
	Fire sprinkler, 0.072 kg/unit, Sprinkler pendant (DONNEE ENVIRONNEMENTALE GENERALE PAR DEFALT)	216.93	kg		30	Steel recycling	Other metals	MDEGD_FDES
8.0 External Works	Marble products for flooring and cladding, 12 mm, 29.7 kg/m2, FLAIR LINE - POLARE product (QUARELLA)	1188	kg	Terrazo tiles - made from crushed brick on site	10	Brick/stone crushed to aggregate (for sub-base layers)	Wall and floor tiles	EPD Marble based products
	Paving bricks and pavers, 200 x 100 x 52 mm, 52 mm, 98 kg/m2, 2000 kg/m3, Paver (Bundesverband der Deutschen Ziegelindustrie e.V.)	140088	kg	Confirmed in Mat 01 RFI	60	Brick/stone crushed to aggregate (for sub-base layers)	Brick, common clay brick	EPD Pflasterziegel und Pflasterklinker
	Cement mortar, gross density: 2000 kg/m3	27740	kg		30	Cement/mortar use in a backfill	Mortar (masonry/bricklaying)	ÖKOBAUDAT 2021-II (25.06.2021)