

NCS category	Resource subtype	Project name	Design name	Date	Toff name	Builder/Contractor/	Contractor Authority	Recycled		Reused	Recycled content by Recycling, %	Reusing, %	Service II EOL Process	Virgin, %	Material q Renewable	Non-renewed	Downcycled	Use as an Disposal	Total cost	Question	Recycled	Renewable	DRD	DPA	Unit class	CS mastc	Control	Original	Imported	Environm	Resource	Transformation
								Total kg	Waste factor																							
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, use	21200 kg	4.83%	26200	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	324000	336960	0	324000	324000	324000	324000	324000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Reinforcement for RC, steel		
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, use	25400 kg	4.83%	25600	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	324000	336960	0	324000	324000	324000	324000	324000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Reinforcement for RC, steel		
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, use	14800 kg	4.83%	13365	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	1485	15532.22	0	14850	14850	14850	14850	14850	0	0	0	P4	5	IMPACT	Reinforcement for RC, steel				
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, use	14800 kg	4.83%	14465	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	1485	15532.22	0	14850	14850	14850	14850	14850	0	0	0	P2	3	IMPACT	Reinforcement for RC, steel				
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Structure, concrete (in-situ)	135 m3	4.00%	0	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	324000	336960	0	324000	324000	324000	324000	324000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)		
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Structure, concrete (in-situ)	135 m3	4.00%	0	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	324000	336960	0	324000	324000	324000	324000	324000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)		
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Structure, concrete (in-situ)	690 m3	4.00%	0	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	1656000	1722240	0	1656000	1656000	1656000	1656000	1656000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)		
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Insulation (flexible), poly	135 m3	4.00%	0	0	0	0	0	0	70.0	Plastic-based material insulation	4725	4725	0	4725	4725	4725	4725	4725	0	0	0	P7	7	IMPACT	Insulation (flexible), polyurethane foam	IMPACT	Insulation (flexible), polyurethane foam		
1.5.Substructure	Reinforcement for concrete (rebar)	A1-A3	Structure, concrete (in-situ)	690 m3	4.00%	0	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	1656000	1722240	0	1656000	1656000	1656000	1656000	1656000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)		
2.1. Frame	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, use	48750 kg	4.83%	43875	0	2.52	100	0	0	As built	Steel recycling	4875	5114.38	0	48750	48750	48750	48750	48750	0	0	0	P4	5	IMPACT	Reinforcement for RC, steel				
2.1. Frame	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, use	710 m3	13.00%	0	0	0	0	0	0	30	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	1150	12997.36	0	11500	11500	11500	11500	11500	0	0	0	P2	4	IMPACT	Reinforcement for RC, steel				
2.1. Frame	Reinforcement for concrete (rebar)	A1-A3	Structure, concrete (in-situ)	150 m3	4.00%	0	0	0	0	0	0	80.0	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	360000	374400	0	360000	360000	360000	360000	360000	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)		
2.2. Upper floor	Plaster, gypsum, plaster c	A1-A3	Plaster, gypsum, plaster c	9 m2	13.00%	0	0	0	0	0	0	30	Landfill (for inert materials)	106.88	120.77	0	106.88	106.88	106.88	106.88	106.88	0	0	0	P23	9	IMPACT	Plaster, gypsum				
2.2. Upper floor	Reinforcement for concrete (rebar)	A1-A3	Structure, concrete (in-situ)	8 m3	4.00%	0	0	0	0	0	0	As built	Concrete crushed to aggregate (for sub-base layers), Portland Cement 300 kg / m3	19200	19968	0	19200	19200	19200	19200	19200	0	0	0	P2	3	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)	IMPACT	Structure, concrete (in-situ, RC25, 30% PFA, excluding reinforcement)		
2.2. Upper floor	Reinforcement for concrete (rebar)	A1-A3	Reinforcement for RC, steel	1000 kg	4.00%	970	0	0.057	100	0	0	As built	Steel recycling	30	3048.5	0	1000	1000	1000	1000	1000	0	0	0	P4	5	IMPACT	Reinforcement for RC, steel				
2.5.Superstructure	Plank wood/timber (softwood and hardwood)	A1-A3	Joist, timber (C16), C16, fl	300 m2	17.90%	0	0	0	0	0	0	As built	Wood incineration	216.45	2553.45	21428.55	216.45	21645	36559	36559	36559	99.0	0	0	P4	5	IMPACT	Joist, timber (C16)				
2.3.Roofs	Hot-dip galvanized zinc coated steel	A1-A3	Roof deck (hallow profile)	468 m2	7.50%	2591.75	0	0.772	100	0	0	As built	Steel recycling	1110.75	3980.19	0	3700.5	3188	3188	3188	3188	70.0	0	0	P4	5	IMPACT	Roof deck (hallow profile), steel (galvanized)				
2.4.Slabs and raft	Structural concrete (beams, columns, pillars)	A1-A3	Structure, concrete (precast)	3.93 ton	0.00%	0	0	0	0	0	0	As built	Rebar separated (2 %), concrete to aggregate	3900	3930	0	3900	3930	3930	3930	0.0	0	0	P2	3	IMPACT	Structure, concrete (precast, RC40)					
2.5.External walls	Brick, common clay brick	A1-A3	Brick, clay (reclaimed), r	1440 m2	5.00%	0	0	0	0	0	0	As built	Brick/tyne crushed to aggregate (for sub-base layers)	21848	229370.4	0	21848	21848	34551	34551	34551	0.0	0	0	P33	4	IMPACT	Brick, clay (reclaimed)				
2.5.External walls	Other steel/iron	A1-A3	Cutting panel (profiled), r	450 m2	10.00%	21491	0	26.88	100	0	0	As built	Steel recycling	14094	38773.3	0	35248.5	38156	38156	38156	38156	0.0	0	0	P4	5	IMPACT	Cutting panel (profiled, composite), steel (coated/protected)				
2.5.External walls	Plank wood/timber (softwood and hardwood)	A1-A3	Cutting panel, timber (in-situ)	15 m2	17.90%	0	0	0	0	0	0	As built	Wood incineration	1.12	132.61	111.36	1.12	112.48	38	38	38	99.0	0	0	P5	6	IMPACT	Cutting panel, timber (reclaimed red cedar, canadian)				
2.6.Windows and	Door and window parts	A1-A3	Window furniture/hardware	1 m2	0.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	1687.5	1687.5	0	1687.5	0	0	0	0	0	0	0	P8	10	IMPACT	Window furniture/hardware, aluminum				
2.6.Windows and	Door and window parts	A1-A3	Window furniture/hardware	5 m2	0.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	1687.5	1687.5	0	1687.5	0	0	0	0	0	0	0	P8	10	IMPACT	Window furniture/hardware, aluminum				
2.6.Windows and	Wood and wood board doors	A1-A3	Door leaf (solid), timber (in-situ)	100 m2	3.75%	0	0	0	0	0	0	30	Wood-containing product incineration (80% wood)	1848	1848	0	1848	1848	9023	9023	9023	0.0	0	0	P8	8	IMPACT	Door leaf (solid), timber (softwood)				
2.7.Internal walls	Hot-dip galvanized/zinc coated steel	A1-A3	Drywall partitions (gambol)	66 m2	7.50%	11837.61	0	5.38	100	0	0	As built	Steel recycling	20231.26	7996.49	0	21410.88	6328	6328	6328	6328	70.0	0	0	P4	5	IMPACT	Drywall partitions (gambol), steel (galvanized)				
2.7.Internal walls	Hot-dip galvanized/zinc coated steel	A1-A3	Drywall partitions (gambol)	1.55 m2	7.50%	2454.93	0	0.237	100	0	0	As built	Steel recycling	1052.11	3750.07	0	1307.04	3020	3020	3020	3020	70.0	0	0	P4	5	IMPACT	Drywall partitions (gambol), steel (galvanized)				
5.30 Lift and com.	Elevators and escalators	A1-A3	Elevator for residential an	0.2 unit	0.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	581.2	581.2	0	581.2	0	0	0	0	0	0	0	P8	25	PEP	Elevator for residential and commercial buildings, 5 floors				
5.4 Water install	Pipes (water, heating, sewage)	A1-A3	Corrugated plastic pipes, (154.78 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	20.28	22.63	1.07	20.28	0	0	0	0	0	0	0	0	P8	33	Lighting system for office build	EPD FFRK Computed plastic pipes			
Not classified	Pipes (water, heating, sewage)	A1-A3	Seawater drainage pipe	1425 m2	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	265.11	276.78	0	265.11	0	0	0	0	0	0	0	P8	33	Wastewater drainage system, One Click	Seawater drainage piping network, per m2 GFA (residential building)				
Not classified	Pipes (water, heating, sewage)	A1-A3	High-density polyethylene	5.227 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	0.527	0.558	0	0.527	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	High-density polyethylene	14.22 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	14.22	15.08	0	14.22	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	Metal-containing product recycling (90 % metal)	2.51 m	2.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	2.51	2.26	0	2.51	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	Metal-containing product recycling (90 % metal)	2.51 m	2.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	2.51	2.26	0	2.51	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	High-density polyethylene	6.88 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	6.88	6.89	0	6.88	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	High-density polyethylene	51.48 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	51.48	59.27	0	51.48	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	High-density polyethylene	58.475 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	78.09	82.78	0	78.09	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	High-density polyethylene	39.229 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	39.23	39.29	0	39.23	0	0	0	0	0	0	0	0	P8	33	Rainwater sewage network for One Click	High-density polyethylene (HDPE) pipe for drainage and sewerage networks			
Not classified	Pipes (water, heating, sewage)	A1-A3	Drinking water supply pipe	1452 m2	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	389.72	391.9	0	389.72	0	0	0	0	0	0	0	P8	33	Fresh water distribution system for One Click	Drinking water supply pipe network, per m2 GFA (residential building)				
Not classified	Pipes (water, heating, sewage)	A1-A3	PVC pipe for water supply	462.65 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	482.65	482.65	0	482.65	0	0	0	0	0	0	0	P8	33	Utility sewage system for office	PVC pipe for water supply networks				
Not classified	Pipes (water, heating, sewage)	A1-A3	Rainwater drainage pipe, (18.728 m	6.00%	0	0	0	0	0	0	100	Metal-containing product recycling (90 % metal)	26.33	27.91	0	26.33	0	0	0	0	0	0	0	0	P8	3					