



Apartment Block



Region	south
Age Class	1995-2001
Net leased area [m²]	1433.8
Storey Height [m]	2.7
Storeys a.g.	3.0



Exterior Wall

Type: massive-monolithic	U [W/m²K]		
	Actual: 0.300	Min: 0.160	Max: 0.600

Layer	Material Name	t_i [m]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	interior plaster	0.01	1400	0.7	850	9	-
1	porous vertically perforated bricks	0.302	1000	0.47	850	3	-
2	mineral wool	0.1	60	0.04	850	4	-
3	exterior plaster	0.015	1600	0.87	850	1	-

Interior Wall

	U [W/m²K]		
	Actual: 2.420	Min: 0.140	Max: 0.300

Layer	Material Name	t_i [m]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	lime plaster	0.01	1600	0.7	850	9	-
1	solid brick	0.15	1800	0.7	850	3	-
2	lime plaster	0.01	1600	0.7	850	4	-

Roof

Type: wooden	U [W/m²K]		
	Actual: 0.140	Min: 0.140	Max: 0.400

Layer	Material Name	t_i [m]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	plank revetment	0.02	600	0.13	1500	7	-
1	rafters	0.08	600	0.13	1500	18	-
2	moving air layer	0.06	1.184	0.0261	1.005	12	-
3	mineral wool	0.15	350	0.04	850	15	-
4	roof battens	0.024	600	0.13	1500	17	-
5	bituminized felt	0.002	1100	5	1000	2	-



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Foundation

Type: massive	U [W/m²K]		
	Actual: 0.480	Min: 0.160	Max: 0.600

Layer	Material Name	t_i [m]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	cement screed	0.04	2000	1.4	1000	8	-
1	mineral wool	0.07	60	0.04	850	4	-
2	reinforced concrete	0.153	2400	2.04	776	11	-

Floor

Actual: 2.420	U [W/m²K]	
	Min: 0.140	Max: 0.300

Layer	Material Name	t_i [m]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	cement screed	0.04	1950	1.4	1000	8	-
1	mineral wool	0.04	60	0.035	850	13	-
2	reinforced concrete	0.2	2400	2.1	776	10	-

Window System

Glazing	EPD _{Gl}	Frame type	EPD _{Fr}	window wall share
2	16	pvc	5	0.19497

Heating System

Generator 1	EPD	Heating energy carrier	EPD
boiler_gas_medium_condensing	14	gas	6



Apartment Block

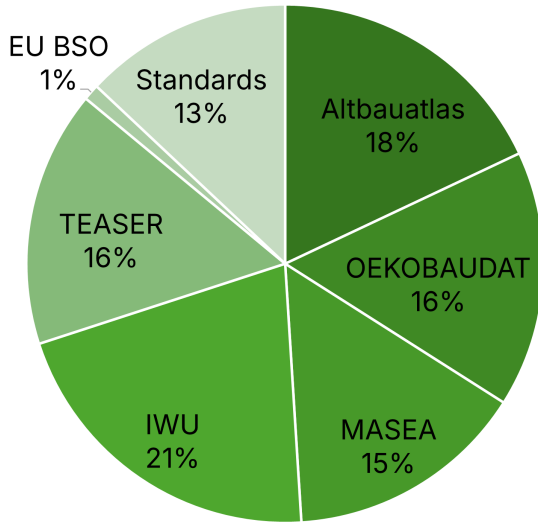


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EPD Summary Table

SPN	Full EPD ID	Material Title
1	004f3f4e-5bb8-4d9e-a104-6999a9e8ad5b	Gypsum lime plaster
2	27ccffb8-02ec-466d-b925-f6db91d4ef71	Bitumen sheets G 200 S4
3	30514538-fcb4-483b-b5d5-c108d2037536	Brick (unfilled)
4	50d421e2-3a7b-4659-92a4-f20d6a52fcf0	Mineral wool (facade insulation)
5	73de9e80-8ed2-47d8-b5b6-854c84166f24	Window sash PVC-U
6	84aa7483-9824-49a9-a3e3-f9fb092ea7b7	Use - 1 kWh of final energy from gas calorific value (according to GEG)
7	86138863-3c1c-4345-9ae9-03ba28a5f9a7	Laminated timber planks coniferous wood (generic)
8	86d919ee-8f30-4ca4-9b7e-717aecba6ac0	Cement screed
9	9a670d29-efb9-4fde-95ab-182a0b1e7280	Lime gypsum interior plaster
10	Synthetic_2	Concrete C30/37 with reinforcement steel
11	Synthetic_7	Ready-mix concrete C30/37 with reinforcement steel
12	Synthetic_8	Air layer
13	ac779922-219f-4730-9aef-a7da84d334c1	Mineral wool (floor insulation)
14	ce333ecb-6cad-441c-9dae-70966acf9333	Gas condensing boiler 20-120 kW (upright unit)
15	d3661bd8-0107-4081-987b-4bdd5cfc68d	Mineral wool (pitched roof insulation)
16	dcf38066-e336-46a7-b0a8-b2453dd2872d	Window glass, single
17	e70d9027-5315-481c-92e2-7b7d8a02eaba	holzius ? solid wood slab elements
18	efa55966-4f29-4f15-bfec-8c08b3945923	Glued laminated timber



This archetype represents :

- 2.96% of all Apartment Blocks
- 5.04% of all Apartment Blocks of the specific region

Data source	Link
Altbauatlas	https://www.altbauatlas.de/index.php
OEKOBAUDAT	https://www.oekobaudat.de/en.html
IWU	https://datenbasis.iwu.de/ https://wohngebaeuedaten2016.iwu.de/
MASEA	https://www.masea-ensan.de/
TEASER	https://ebc-tools.eonerc.rwth-aachen.de/en/teaser
EU BSO	https://building-stock-observatory.energy.ec.europa.eu/database/