



Apartment Block



Region	south
Age Class	1984-1994
Net leased area [m²]	1667.8
Storey Height [m]	2.7
Storeys a.g.	4.0



Exterior Wall

Type:	U [W/m²K]		
lightweight timbered	Actual: 0.310	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	plaster board	0.013	900	0.21	1384	2	-
1	wooden beams	0.115	600	0.14	1500	17	-
2	polystyrene	0.08	40	0.04	1380	5	-
3	chipboard	0.016	700	0.14	1700	3	-
4	exterior plaster	0.015	1800	0.87	850	1	-

Interior Wall

U [W/m²K]		
Actual: 0.650	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	0.1	1600	0.7	850	2	-
1	hardwood	0.15	650	0.14	1500	17	-
2	lime plaster	0.1	1600	0.7	850	5	-

Roof

Type: wooden	U [W/m²K]		
	Actual: 0.190	Min: 0.160	Max: 0.500

Layer	Material Name	t_i [m]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	gypsum plasterboard	0.013	900	0.21	1228	20	-
1	rafters	0.08	600	0.13	1500	19	-
2	moving air layer	0.06	1.184	0.0261	1.005	14	-
3	polyethylene underlay	0.005	900	0.35	2300	7	-
4	glass wool	0.08	120	0.04	840	8	-
5	roof tiles	0.02	1786	0.55	889	15	-



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Foundation

Type: massive	U [W/m ² K]		
	Actual: 0.760	Min: 0.160	Max: 0.600

Layer	Material Name	t _i [m]	ρ _i [kg/m ³]	λ _i [W/mK]	c _i [J/kgK]	EPD ₁	EPD ₂
0	cement screed	0.04	2000	1.4	1000	11	-
1	mineral wool	0.04	60	0.04	850	6	-
2	reinforced concrete	0.153	2400	2.04	776	13	-

Floor

Actual: 0.650	U [W/m ² K]	
	Min: 0.140	Max: 0.300

Layer	Material Name	t _i [m]	ρ _i [kg/m ³]	λ _i [W/mK]	c _i [J/kgK]	EPD ₁	EPD ₂
0	cement screed	0.04	1950	1.4	1000	11	-
1	mineral wool	0.04	60	0.035	850	16	-
2	reinforced concrete	0.2	2400	2.1	776	12	-

Window System

Glazing	EPD _{Gl}	Frame type	EPD _{Fr}	window wall share
2	18	pvc	9	0.20694

Heating System

Generator 1	EPD	Heating energy carrier	EPD
boiler_gas_medium_low_temperature	4	gas	10



Apartment Block

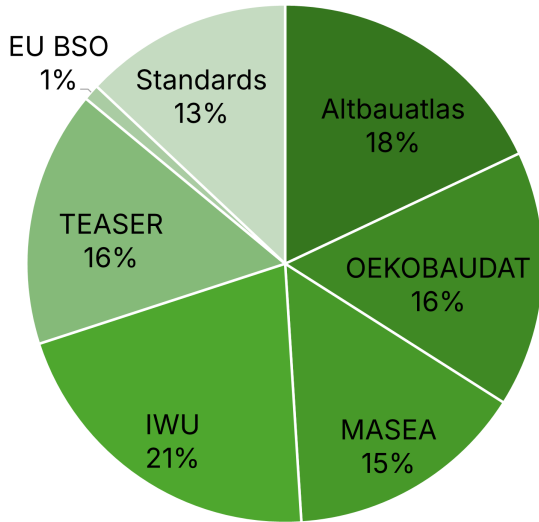


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EPD Summary Table

SPN	Full EPD ID	Material Title
1	004f3f4e-5bb8-4d9e-a104-6999a9e8ad5b	Gypsum lime plaster
2	0773f90c-78ef-4727-a966-3b005c1a1469	PLASTERBOARD / Tool
3	0f2f2410-d9e2-4e0f-837a-987cb3186d81	Chipboard (generic)
4	230155d8-a5df-4b32-b6e9-46bdbcf526b3	Gas low temperature boiler 20-120 kW (upright unit)
5	4e83c488-bb36-40b0-bfd4-b2aa7f1c0f04	Expanded Polystyrene (EPS) Foam Insulation (density 30 kg/m³)
6	50d421e2-3a7b-4659-92a4-f20d6a52fcf0	Mineral wool (facade insulation)
7	6869f7c1-1b2b-4f30-afc9-823a0104f1d9	Damp insulation PE
8	7091503e-34e5-44cd-9acb-7c2f16f6097f	Foam glass insulation material
9	73de9e80-8ed2-47d8-b5b6-854c84166f24	Window sash PVC-U
10	84aa7483-9824-49a9-a3e3-f9fb092ea7b7	Use - 1 kWh of final energy from gas calorific value (according to GEG)
11	86d919ee-8f30-4ca4-9b7e-717aecba6ac0	Cement screed
12	Synthetic_2	Concrete C30/37 with reinforcement steel
13	Synthetic_7	Ready-mix concrete C30/37 with reinforcement steel
14	Synthetic_8	Air layer
15	a6d60a75-7a4e-4dfc-87cc-fd40f68d279a	Roofing tiles (including accessories)
16	ac779922-219f-4730-9aef-a7da84d334c1	Mineral wool (floor insulation)
17	aeab0f39-5eab-422f-8c4b-822bb98aa63c	Laminated wood beam softwood (generic)
18	dcf38066-e336-46a7-b0a8-b2453dd2872d	Window glass, single
19	efa55966-4f29-4f15-bfec-8c08b3945923	Glued laminated timber
20	f6878cee-a4bd-43da-a830-c64b975cb957	DRY SCREED PLASTERBOARD / Tool



This archetype represents :

- **0.12%** of all Apartment Blocks
- **1.07%** 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/