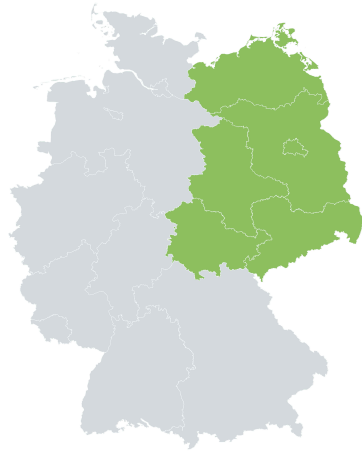




Apartment Block



Region	east
Age Class	1984-1994
Net leased area [m²]	377.3
Storey Height [m]	2.7
Storeys a.g.	4.0



Exterior Wall

Type: massive-double	U [W/m²K]		
	Actual: 1.240	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	reinforced concrete	0.15	2400	2.1	776	10	-
2	kamilit	0.02	500	0.04	840	5	-
3	concrete	0.06	2400	2.1	776	10	-
4	washed plaster	0.02	1800	0.87	850	3	-

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	10	-
2	lime plaster	0.01	1600	0.7	850	5	-

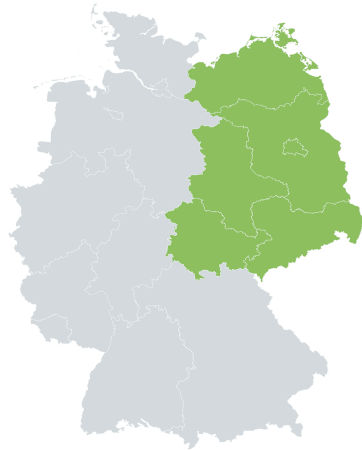
Roof

Type: wooden	U [W/m²K]		
	Actual: 0.260	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	lime gypsum plaster	0.01	1900	0.7	850	1	-
1	rafters	0.08	455	0.14	1500	17	-
2	moving air layer	0.06	1.184	0.0261	1.005	12	-
3	mineral wool	0.03	200	0.04	850	15	-
4	roof tiles	0.02	1786	0.55	889	13	-



Apartment Block



Region	east
Age Class	1984-1994
Net leased area [m²]	377.3
Storey Height [m]	2.7
Storeys a.g.	4.0



Foundation

Type: massive	U [W/m²K]		
	Actual: 1.230	Min: 0.170	Max: 0.800

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	2100	1.2	2058	8	-
1	mineral wool	0.02	150	0.04	850	14	-
2	reinforced concrete	0.14	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	0.04	850	4	-
2	reinforced concrete	0.2	2400	2.1	776	10	-

Window System

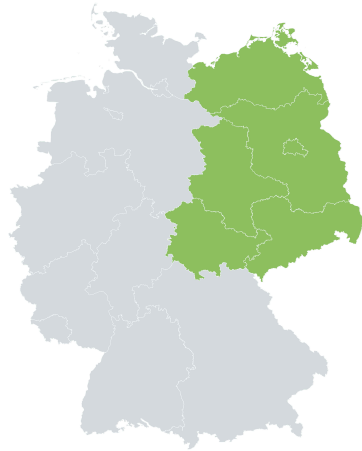
Glazing	EPD _{Gl}	Frame type	EPD _{Fr}	window wall share
2	16	pvc	6	0.20694

Heating System

Generator 1	EPD	Heating energy carrier	EPD
boiler_gas_medium_low_temperature	2	gas	7



Apartment Block

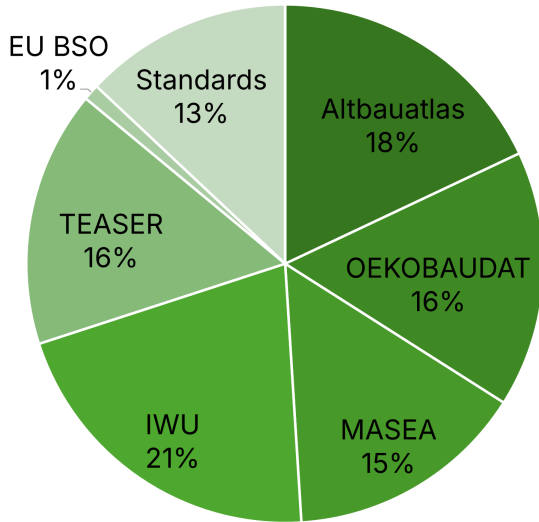


Region	east
Age Class	1984-1994
Net leased area [m²]	377.3
Storey Height [m]	2.7
Storeys a.g.	4.0



EPD Summary Table

SPN	Full EPD ID	Material Title
1	004f3f4e-5bb8-4d9e-a104-6999a9e8ad5b	Gypsum lime plaster
2	230155d8-a5df-4b32-b6e9-46bdbcf526b3	Gas low temperature boiler 20-120 kW (upright unit)
3	44eada3f-2004-48b9-8152-22cd045bc3cf	5.1.01. Dispersion plaster
4	50d421e2-3a7b-4659-92a4-f20d6a52fcf0	Mineral wool (facade insulation)
5	7395adfa-2a3f-43f1-be88-5d4a392968a5	Mineral wool (blowable)
6	73de9e80-8ed2-47d8-b5b6-854c84166f24	Window sash PVC-U
7	84aa7483-9824-49a9-a3e3-f9fb092ea7b7	Use - 1 kWh of final energy from gas calorific value (according to GEG)
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	a6d60a75-7a4e-4dfc-87cc-fd40f68d279a	Roofing tiles (including accessories)
14	ac779922-219f-4730-9aef-a7da84d334c1	Mineral wool (floor insulation)
15	d3661bd8-0107-4081-987b-4bdd5cfc68d	Mineral wool (pitched roof insulation)
16	dcf38066-e336-46a7-b0a8-b2453dd2872d	Window glass, single
17	efa55966-4f29-4f15-bfec-8c08b3945923	Glued laminated timber



This archetype represents :

- 0.95% of all Apartment Blocks
- 5.44% 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/