



Non-Residential Nuanced

Region	north
Bldg Type	Retail
rel Anzahl	0.11
Age Class	1995-2001



Exterior Wall

Type: massive

U [W/m²K]: 0.294

Layer	Material Name	t_i [cm]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	interior plaster	1	1400	0,7	850	5	-
1	reinforced concrete	22	2400	2.1	776	7	11
2	mineral wool	6.11	60	0,04	850	3	-
3	concrete	6	2400	2.1	776	7	-
4	exterior plaster	2	1800	0.87	850	1	-
5	mineral wool	6.11	60	0,04	850	3	-

Roof

Type: -

U [W/m²K]: 0.236

Layer	Material Name	t_i [cm]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	concrete_CEM_II_B S325R_wz05	22	2420	2,1	1000	7	11
1	styrofoam	13.41	30	0,035	1500	10	-
2	gravel	3	750	0,19	920	6	-

Foundation

U [W/m²K]: 0.351

Layer	Material Name	t_i [cm]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	floating cement screed	4	1940	1,4	1000	12	-
1	EPS_040_15	10	15	0,04	1500	2	-
2	concrete_CEM_II_B S325R_wz05	22.8	2420	2,1	1000	7	11



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Floor

U [W/m²K]: 0.539

Layer	Material Name	t_i [cm]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	floating cement screed	4	1940	1,4	1000	12	-
1	EPS_040_15	6	15	0,04	1500	2	-
2	reinforced concrete	22.8	2104	1,94	776	7	11

Window System

U [W/m²K]	Percentage of walls	Glazing	EPD _{Gl}	Frame type	EPD _{Fr}	Shading type	EPD _{Sh}
	0.25	2	9	aluminium	8	none	-

Heating System

Unit type	Generator	EPD _{HEG}	Transfer type	Heating energy carrier	EPD _{HEC}
per_bldg	boiler	13	radiative_single	gas	4

HVAC System

mechanical ventilation	Ventilation volume [m³/m²h]	EPD _{MV}	Ventilation heating	EPD _{VH}	Ventilation cooling	EPD _{VH}	Cooling energy carrier	EPD _{CEC}
only_window	1443.03	-	no	-	no	-	-	-



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NLA [m²]	962.0
Height [m]	5.17
Stories a.g.	1.74
Stories b.g.	-



Façade length [m]			
N	S	E	W
33.79	30.72	27.69	28.73

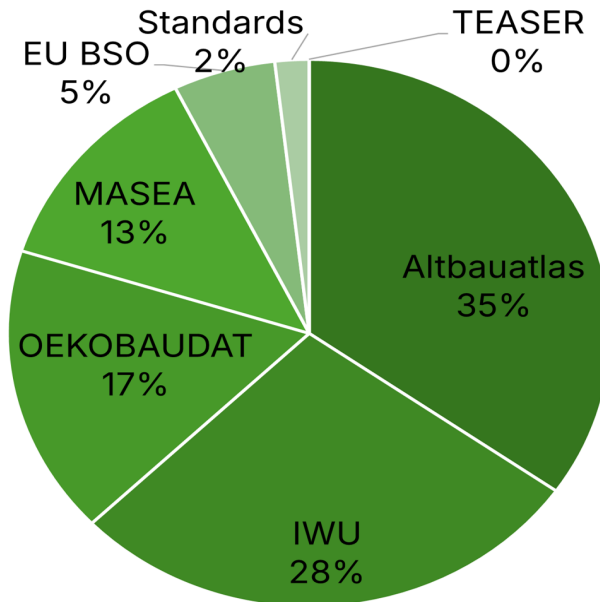
Façade area [m²]			
N	S	E	W
178.41	161.42	148.97	155.67

EPD Summary Table

EPD No.	Full UUID	Material Title	Weblink
1	004f3f4e-5bb8-4d9e-a104-6999a9e8ad5b	Gips Kalk Putz	Link
2	205b761d-e344-49c3-a3a9-bb1bfd59b916	EPS-Hartschaum (Rohdichte 15 kg/m³)	Link
3	50d421e2-3a7b-4659-92a4-f20d6a52fcf0	Mineralwolle (Fassaden-Dämmung)	Link
4	84aa7483-9824-49a9-a3e3-f9fb092ea7b7	Nutzung - 1 kWh Endenergie aus Gas Brennwert (entspr. GEG)	Link
5	9a670d29-efb9-4fde-95ab-182a0b1e7280	Kalk-Gips-Innenputz	Link
6	a7bad3b6-2123-483b-99b5-2ec481254be7	Kies 2/32 (getrocknet)	Link
7	b3fb0ba9-2376-49bf-b21a-7f7a5cd97233	Beton der Druckfestigkeitsklasse C30/37	Link
8	d0e0f205-2f4d-4c7f-b63a-23a9abd6e60a	Aluminium-Rahmenprofil, pulverbeschichtet	Link
9	dcf38066-e336-46a7-b0a8-b2453dd2872d	Fensterglas einfach	Link
10	f2552bdf-c847-4ef8-9665-c37e8ef4d44d	Schüttung aus Polystyrolschaumstoff-Partikeln (ohne Bindemittel)	Link
11	f6861618-5a92-4c3a-94ba-9f7329b29662	Bewehrungsstahl	Link
12	fe371be5-c72f-4203-8569-a085ef375ba4	Calciumsulfat-Fließestrich und konventioneller Calciumsulfat-Estrich	Link
13	fe91b985-60da-45dc-b3fd-29b9e632d49f	Gas-Brennwertgerät 120-400 kW (Standgerät)	Link



Data sources for 156 variables



Data source	Link
Altbauatlas	https://www.altbauatlas.de/index.php
OEKOBAUDAT	https://www.oekobaudat.de/en.html
IWU	https://www.iwu.de/1/research/gebaeudebestand/forschungsdatenbank/
MASEA	https://www.masea-ensan.de/
EU BSO	https://building-stock-observatory.energy.ec.europa.eu/database/
Standards	https://www.din.de/de/mitwirken/normenausschuesse/nabau/veroeffentlichungen/wdc-beuth:din21:293576742 https://www.din.de/de/mitwirken/normenausschuesse/nabau/veroeffentlichungen/wdc-beuth:din21:134234392