



HOSPITALITY



Region	north
Bldg Type	Non-residential
Variant	Nuanced
Age Class	2002-2009
Rel Anzahl	0.91
NLA [m²]	724.92
Height [m]	7.06
storeys a.g.	0.55
storeys b.g.	0.42



Exterior Wall

Type: massive

U [W/m²K]: 0.55

Layer	Material Name	t_i [cm]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	insulating plaster	2	1291	0.39	1291	4	-
1	concrete_CEM_II_B S325R_wz05	17.5	2420	2.1	1000	7	-
2	EPS_040_15	6.08	15	0.04	1500	1	-

Interior Wall

U [W/m²K]: 4.04

Layer	Material Name	t_i [cm]	ρ_i [kg/m³]	λ_i [W/mK]	c_i [J/kgK]	EPD ₁	EPD ₂
0	insulating plaster	2	1291	0.39	1291	4	-
1	concrete_CEM_II_B S325R_wz05	17.5	2420	2.1	1000	7	-
2	EPS_040_15	6.08	15	0.04	1500	1	-

Roof

U [W/m²K]: 0.18

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	6	-
1	reinforced concrete	22	2400	2.1	776	7	-
2	rafters	8	600	0.13	1500	11	-
3	mineral wool	10	60	0.04	850	2	-
4	moving air layer	6	1.184	0.026	1.005	8	-
5	roof tiles	2	1786	0.55	889	9	-



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Foundation

U [W/m²K]: 0.36

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	1	-
2	concrete_CEM_II_B S325R_wz05	16	2420	2.1	1000	7	-

Floor

U [W/m²K]: 4.04

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	1	-
2	reinforced concrete	16	2104	1.94	776	7	-

Window System

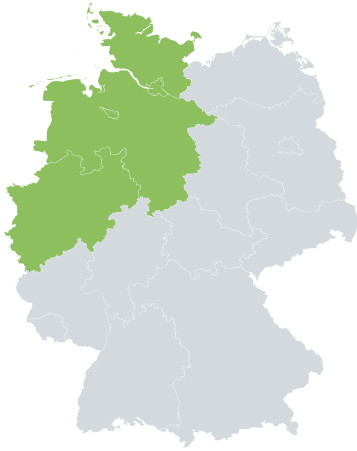
Percentage of walls	Glazing	EPD _{Gl}	Frame type	EPD _{Fr}	Shading type	EPD _{Sh}
...	2	10	pvc	3	-	-

Heating System

Unit type	Generator	EPD _{HEG}	Heating energy carrier	EPD _{HEC}
per_bldg	boiler_gas_large_condensing	13	gas	5



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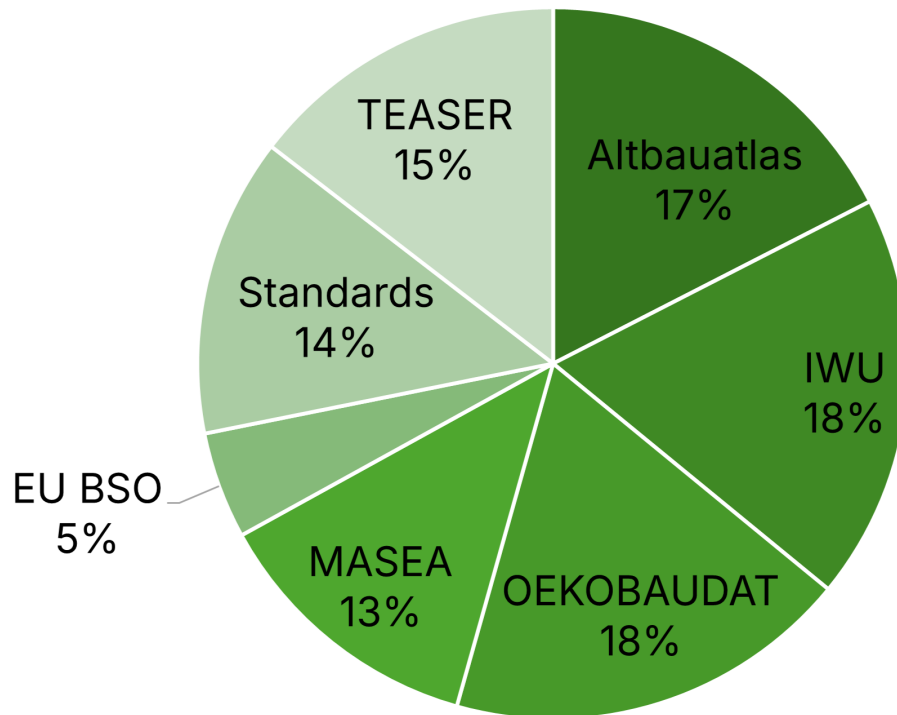


Façade length [m]							
N		S		E		W	
Mean	SE	Mean	SE	Mean	SE	Mean	SE
20.27	3.85	21.85	3.72	23.53	3.8	25.86	3.62

Façade area [m²]							
N		S		E		W	
Mean	SE	Mean	SE	Mean	SE	Mean	SE
148.81	33.48	157.12	32.19	178.12	47.98	187.98	45.83

EPD Summary Table

Serial No.	Full UUID	Material Name
1	205b761d-e344-49c3-a3a9-bb1bfd59b916	Expanded Polystyrene (EPS) Foam Insulation (density 15 kg/m³)
2	50d421e2-3a7b-4659-92a4-f20d6a52fcf0	Mineral wool (facade insulation)
3	73de9e80-8ed2-47d8-b5b6-854c84166f24	Window sash PVC-U
4	7e8801e0-c0e4-4995-bf8a-883181f6aa20	ETICS gluing and coating mineral lightweight plaster
5	84aa7483-9824-49a9-a3e3-f9fb092ea7b7	Use - 1 kWh of final energy from gas calorific value (according to GEG)
6	9a670d29-efb9-4fde-95ab-182a0b1e7280	Lime gypsum interior plaster
7	Synthetic_2	Concrete C30/37 with reinforcement steel
8	Synthetic_8	Air layer
9	a6d60a75-7a4e-4dfc-87cc-fd40f68d279a	Roofing tiles (including accessories)
10	dcf38066-e336-46a7-b0a8-b2453dd2872d	Window glass, single
11	efa55966-4f29-4f15-bfec-8c08b3945923	Glued laminated timber
12	fe371be5-c72f-4203-8569-a085ef375ba4	CALCIUM SULPHATE FLOWING SCREED AND CONVENTIONAL CALCIUM SULPHATE SCREED
13	fe91b985-60da-45dc-b3fd-29b9e632d49f	Gas condensing boiler120-400 kW (upright unit)



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/

* Building images are generated by AI