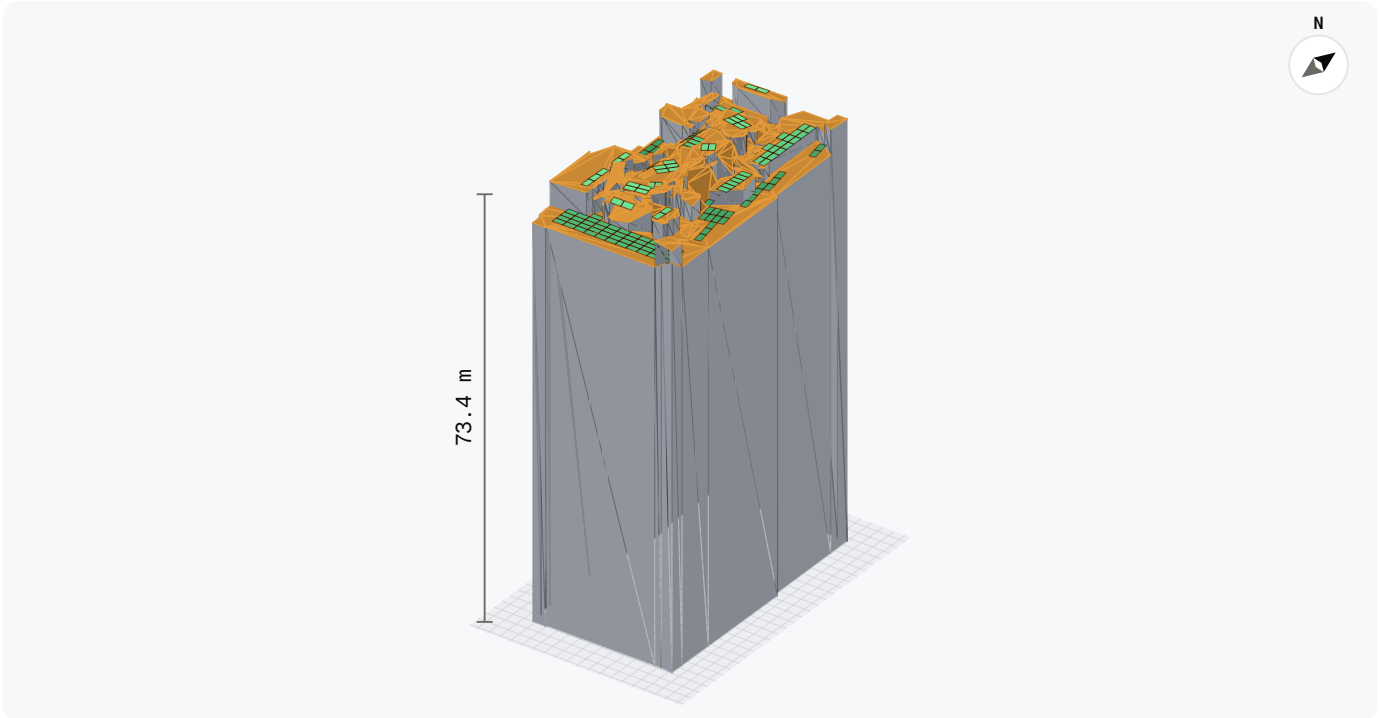


Kolbenova 1021/9

Praha · 190 00 · CZ

 Built 2020

ID 32103dd0-7d89-4b10-9329-38e68d24cdef



Roof

Walls

Panels

Open positions

Measured roof model · layout of 169 of 169 panels shown · 8 panels can't be placed on this 3D model

↕ Height 73.4 m	🏠 Floors 22 incl. underground	📐 Footprint 1,391 m² 58.7 × 45.1 m	🏠 Floor area 28,615 m² usable, walls excluded
🏠 Dwellings 0	📅 Built 2020	☀ Solar potential 67.6 kWp 169 panels max	⚡ Yield 55.0 MWh/yr 24.2 t CO₂ avoided

■ Panel layout

25% · 42

50% · 85

75% · 128

Max · 169

169 of 169 panels

67.6 kWp

Capacity

55.0 MWh/yr

Yield

24.2 t/yr

CO₂ avoided

332 m²

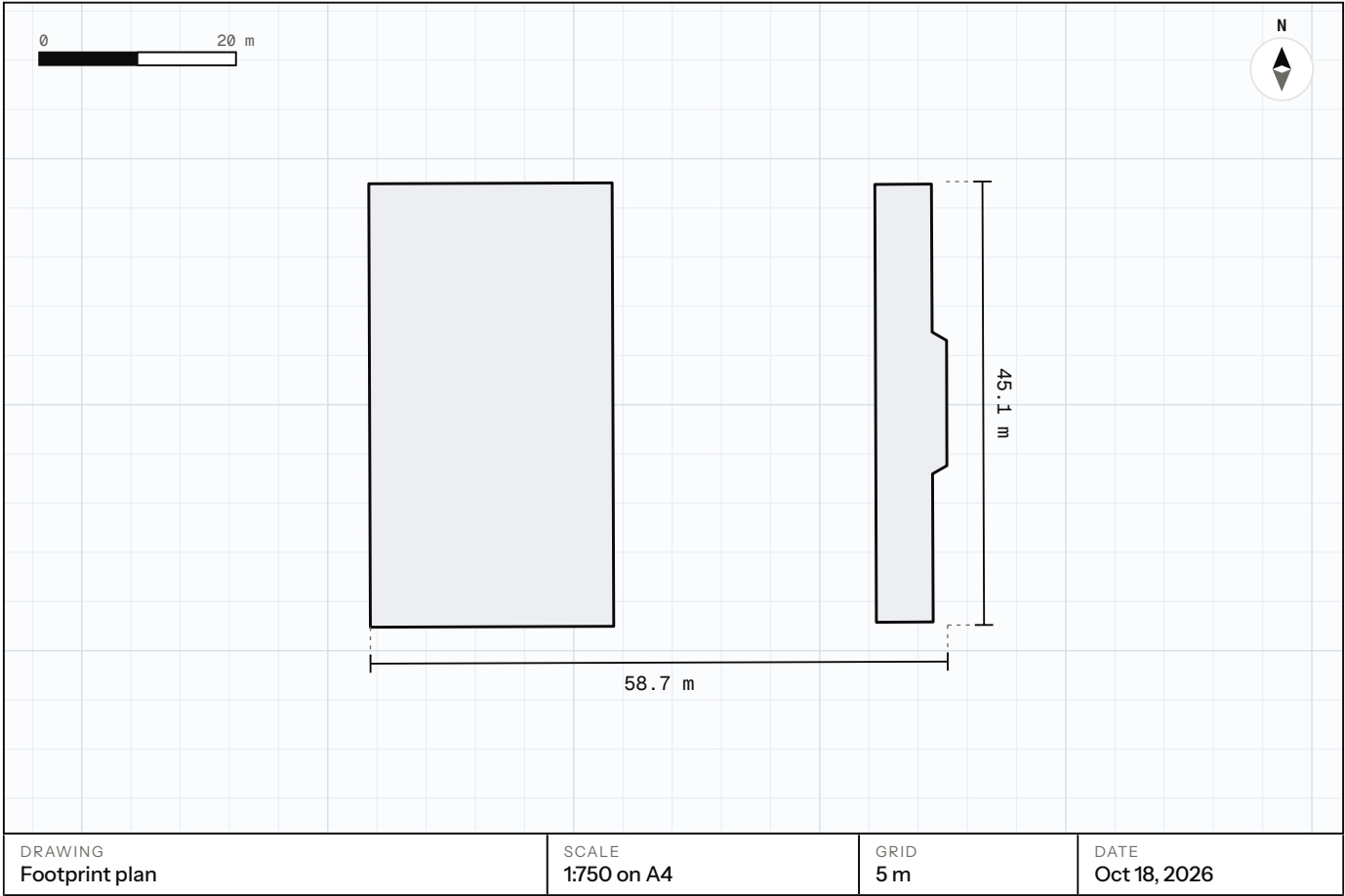
Panel area

Contents

 Dimensions	58.7 × 45.1 m · 1,391 m ²	 Hazards	
 Floors & units	22 floors incl. underground · 0 dwellings	 Roof & solar	67.6 kWp · 169 panels
 Existing panels	Not checked	 Energy & networks	~101,786 kWh/yr
 Climate		 Location & identity	1 address
 Businesses	10		

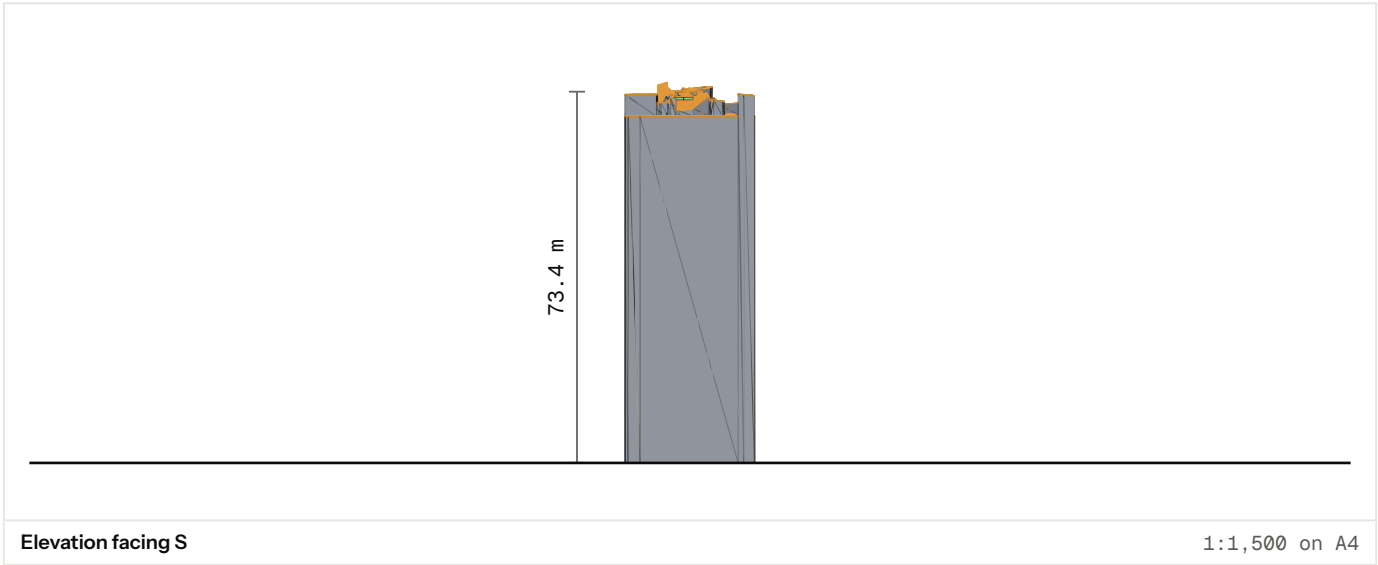
Dimensions

58.7 × 45.1 m · 1,391 m²



Elevations

square-on, at one scale





 Footprint	1,391 m²	 Length × width	58.7 × 45.1 m
 Perimeter	241.8 m	 Long axis	90° E-W
 Height	73.4 m	 Built-up area	1,114 m²
 Floor area	28,615 m² usable, walls excluded	 Volume, estimated	≈75,611 m³
 Enclosed volume	123,900 m³	 Construction	Monolit
 3D model	Measured roof model 92% confidence		

 Not on record roof shape

Hazards

 Not on record flood risk · seismic design acceleration · seismic risk class

Floors & units

22 floors incl. underground · 0 dwellings

 Floors incl. underground	22	 Dwellings	0
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Access

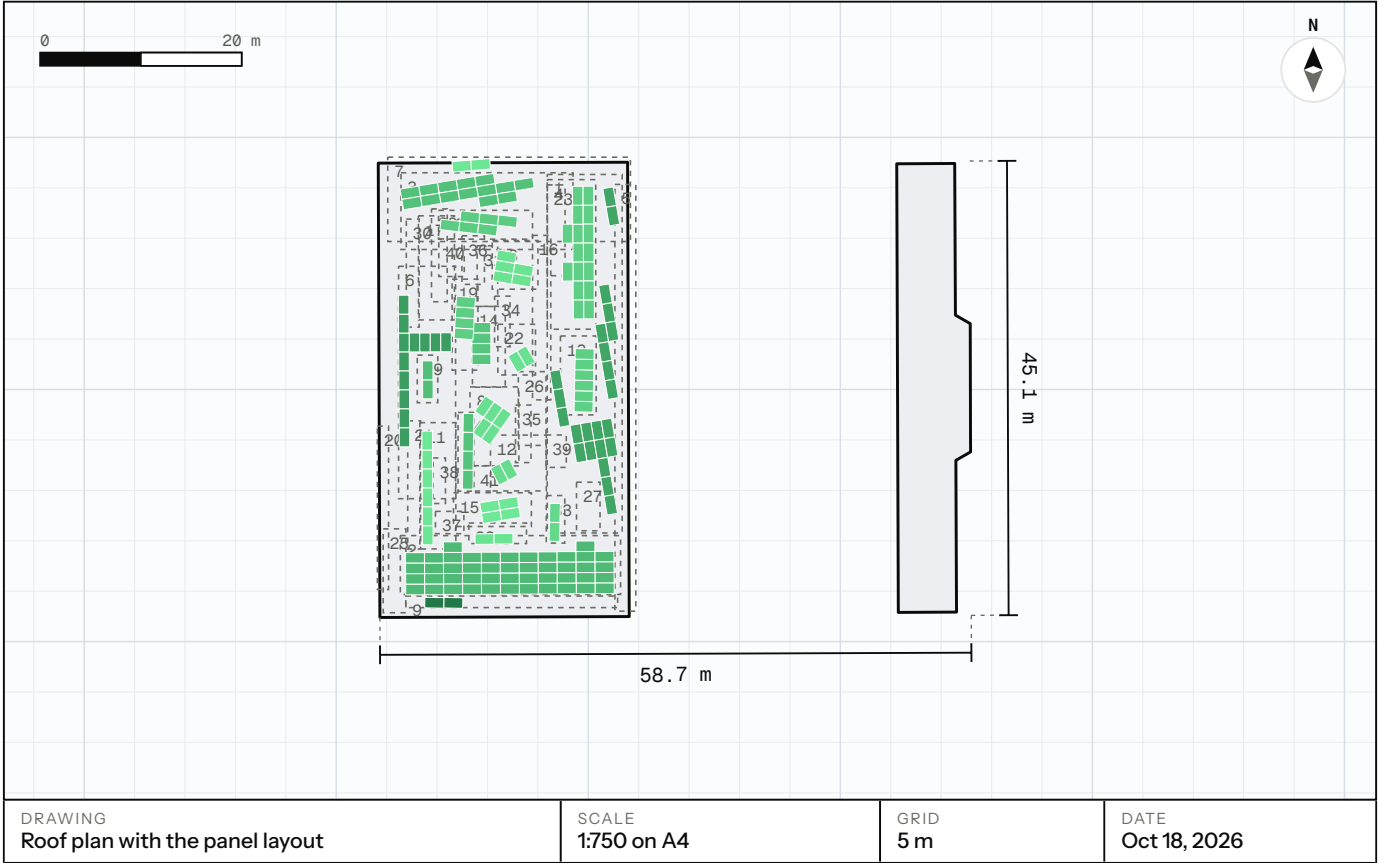
 Lift yes

 Not on record floors above ground · floors below ground

Roof & solar

67.6 kWp · 169 panels

Roof analysed from imagery of October 5, 2022



Panel layout

25% · 42

50% · 85

75% · 128

Max · 169

169 of 169 panels

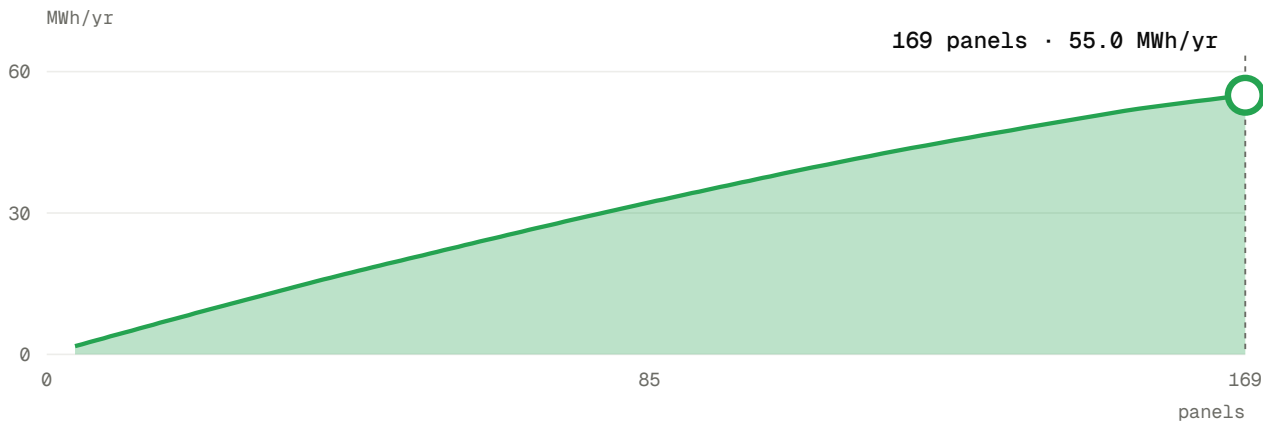
67.6 kWp
Capacity

55.0 MWh/yr
Yield

24.2 t/yr
CO₂ avoided

332 m²
Panel area

Layout size



□ Whole roof	1,148 m ²	□ Usable for panels	332 m ²
📍 Ground under the roof	844 m ²	☀️ Peak sunshine	1,099 h/yr
📷 Imagery	Oct 5, 2022 high quality	🔄 Analysis confidence	95 %

⚠️ The analysis covers about 34% of the outline's extent; part of the roof may be missing.

⚠️ The analysed roof is smaller than the outline

ground area under the analysed roof

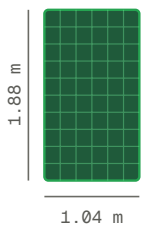
Drawn outline		1,391 m ²	
Analysed roof		844 m ²	61% of the outline

☀️ Sunshine across the roof

h/yr, least to most sunlit



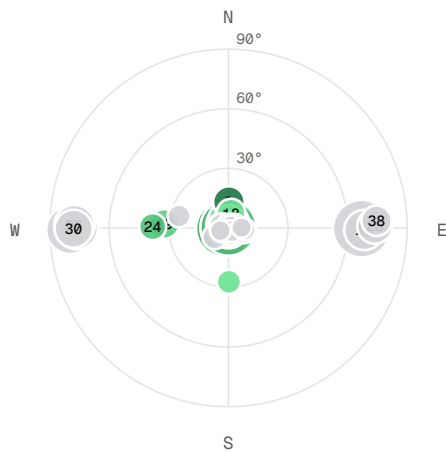
⚡ Panel module



⚡ Power	400 W
□ Module size	1.045 × 1.879 m
📄 Landscape · portrait	116 · 53

⚠️ Roof planes and their panels

41 planes · 21 with panels



Dot = roof plane · angle = the way it faces · distance from the centre = pitch · size = area · green = carries panels

#	Facing	Pitch	Area m ²	Elevation m	Sun h/yr	Panels
2	⌚ N 0°	0.2°	107.1	280.9	976	46
1	⌚ W 260°	2.1°	109.1	281.0	876	23
4	⌚ N 0°	0.1°	47.5	283.4	1,075	16
3	⌚ N 351°	1.4°	55.6	280.9	1,007	14
6	⌚ N 0°	0.3°	44.6	281.0	840	12
10	⌚ N 7°	3.6°	20.7	283.6	1,059	6
11	⌚ N 0°	0.9°	20.7	285.3	1,183	6
13	⌚ W 272°	3.2°	17.8	283.4	1,077	6

#	Facing	Pitch	Area m ²	Elevation m	Sun h/yr	Panels
8	☉ NE 35°	3.2°	25.2	284.6	1,153 	5
18	☉ N 10°	7.5°	16.1	285.7	1,169 	5
14	☉ N 0°	1.0°	16.5	284.5	1,026 	4
15	☉ S 171°	1.5°	16.2	285.8	1,187 	4
19	☉ W 274°	32.2°	17.3	284.0	1,067 	4
24	☉ W 271°	38.2°	12.9	284.2	1,018 	4
7	☉ N 355°	4.5°	37.6	284.9	1,181 	2
9	☉ N 1°	13.0°	21.6	285.0	666 	2
12	☉ SW 242°	2.1°	19.2	284.5	1,137 	2
22	☉ SW 240°	3.0°	12.2	286.1	1,158 	2
29	☉ N 0°	0.8°	8.5	283.4	997 	2
32	☉ S 180°	27.1°	8.5	284.5	1,167 	2
33	☉ N 1°	1.4°	6.6	284.0	1,115 	2
5	☉ E 90°	67.1°	113.6	284.7	1,134 	0
16	☉ E 91°	68.4°	44.0	285.1	1,144 	0
17	☉ NE 43°	1.1°	16.5	285.3	1,171 	0
20	☉ W 269°	79.7°	71.9	283.5	896 	0
21	☉ W 270°	76.4°	51.4	283.5	814 	0
23	☉ E 80°	2.7°	12.1	283.8	1,092 	0
25	☉ W 271°	77.6°	45.2	285.6	1,079 	0
26	☉ E 100°	7.9°	9.7	284.7	1,090 	0
27	☉ SW 237°	8.3°	9.0	281.2	874 	0
28	☉ E 89°	73.7°	29.8	283.8	964 	0
30	☉ W 270°	78.0°	37.5	283.8	857 	0
31	☉ W 289°	3.8°	8.1	286.0	1,173 	0
34	☉ NE 66°	1.2°	6.5	286.1	1,100 	0
35	☉ SW 243°	3.5°	6.4	285.5	1,174 	0
36	☉ W 284°	25.6°	6.8	284.6	1,040 	0
37	☉ SE 135°	2.3°	5.7	283.6	1,046 	0
38	☉ E 87°	74.7°	19.1	283.0	998 	0
39	☉ E 96°	8.3°	4.7	283.9	1,125 	0
40	☉ W 251°	4.3°	4.6	284.2	1,032 	0
41	☉ E 89°	6.6°	4.3	284.5	1,121 	0

Panel positions

metres east and north of the building's point

Panel	#	Layout	Position m	In layout	Panel	#	Layout	Position m	In layout
1	15	Landscape	-9.6, -12.6	☑	2	15	Landscape	-7.7, -12.3	☑
3	18	Landscape	-8.5, 11.1	☑	4	15	Landscape	-9.8, -11.6	☑
5	32	Landscape	-10.3, -14.8	☑	6	11	Portrait	-16.0, -6.9	☑
7	11	Portrait	-16.0, -5.1	☑	8	8	Portrait	-9.6, -4.4	☑
9	11	Portrait	-16.0, -8.8	☑	10	33	Portrait	-3.3, -14.1	☑
11	18	Landscape	-6.6, 10.8	☑	12	15	Landscape	-7.9, -11.3	☑
13	32	Landscape	-8.4, -14.8	☑	14	8	Portrait	-10.5, -3.8	☑
15	8	Portrait	-9.4, -2.3	☑	16	8	Portrait	-10.3, -1.7	☑

Panel	#	Layout	Position m	In layout	Panel	#	Layout	Position m	In layout
17	11	Portrait	-15.9, -10.7	☑	18	22	Landscape	-6.2, 3.3	☑
19	4	Portrait	-1.0, 15.5	☑	20	12	Landscape	-8.8, -8.4	☑
21	12	Landscape	-7.9, -7.9	☑	22	18	Landscape	-8.3, 12.2	☑
23	18	Landscape	-8.1, 13.2	☑	24	11	Portrait	-15.9, -12.6	☑
25	11	Portrait	-15.9, -14.5	☑	26	18	Landscape	-6.4, 11.8	☑
27	4	Portrait	-1.0, 13.6	☑	28	10	Landscape	-13.7, 16.3	☑
29	33	Portrait	-3.3, -12.2	☑	30	4	Portrait	-1.0, 11.7	☑
31	8	Portrait	-8.6, -2.9	☑	32	4	Portrait	-1.0, 9.8	☑
33	4	Portrait	-1.0, 7.9	☑	34	4	Portrait	-2.0, 11.7	☑
35	4	Portrait	-2.1, 15.5	☑	36	4	Portrait	-1.0, 17.3	☑
37	4	Portrait	-1.0, 19.2	☑	38	22	Landscape	-7.1, 2.7	☑
39	10	Landscape	-11.9, 16.1	☑	40	14	Landscape	-10.6, 6.1	☑
41	13	Portrait	-0.5, -1.7	☑	42	14	Landscape	-10.6, 5.1	☑
43	14	Landscape	-10.6, 4.0	☑	44	29	Portrait	-15.9, 0.0	☑
45	2	Landscape	-7.8, -16.6	☑	46	3	Landscape	-12.1, 20.5	☑
47	29	Portrait	-15.9, 1.9	☑	48	2	Landscape	-9.7, -16.7	☑
49	2	Landscape	-11.5, -16.7	☑	50	2	Landscape	-5.9, -16.6	☑
51	13	Portrait	-0.4, -0.7	☑	52	13	Portrait	-0.4, 0.4	☑
53	4	Portrait	0.0, 17.3	☑	54	4	Portrait	0.1, 7.9	☑
55	14	Landscape	-10.6, 3.0	☑	56	3	Landscape	-14.0, 20.1	☑
57	4	Portrait	0.0, 19.2	☑	58	13	Portrait	-0.4, 1.4	☑
59	13	Portrait	-0.4, 2.5	☑	60	13	Portrait	-0.4, 3.5	☑
61	24	Landscape	-11.9, -3.3	☑	62	2	Landscape	-4.0, -16.6	☑
63	2	Landscape	-13.4, -16.7	☑	64	2	Landscape	-13.4, -15.6	☑
65	19	Portrait	-12.3, 6.6	☑	66	3	Landscape	-10.3, 20.8	☑
67	3	Landscape	-10.1, 19.7	☑	68	3	Landscape	-8.2, 20.1	☑
69	4	Portrait	0.0, 15.5	☑	70	19	Portrait	-12.3, 5.5	☑
71	4	Portrait	0.0, 13.6	☑	72	4	Portrait	0.1, 11.7	☑
73	4	Portrait	0.1, 9.8	☑	74	2	Landscape	-2.2, -16.6	☑
75	3	Landscape	-6.4, 20.4	☑	76	24	Landscape	-11.9, -5.2	☑
77	24	Landscape	-11.9, -7.1	☑	78	2	Landscape	-9.7, -17.7	☑
79	2	Landscape	-7.8, -17.7	☑	80	2	Landscape	-11.5, -17.7	☑
81	2	Landscape	-5.9, -17.7	☑	82	3	Landscape	-11.9, 19.4	☑
83	3	Landscape	-15.8, 19.8	☑	84	2	Landscape	-13.4, -17.7	☑
85	2	Landscape	-4.0, -17.7	☑	86	19	Portrait	-12.2, 7.6	☑
87	1	Landscape	0.9, -4.0	☑	88	1	Landscape	-0.1, -4.2	☑
89	2	Landscape	-0.3, -16.6	☑	90	1	Landscape	0.2, -6.1	☑
91	1	Landscape	-0.8, -6.3	☑	92	2	Landscape	-0.3, -15.5	☑
93	1	Landscape	1.2, -5.9	☑	94	2	Landscape	-15.3, -17.7	☑
95	2	Landscape	-15.3, -16.7	☑	96	1	Landscape	1.9, -3.9	☑
97	2	Landscape	-2.1, -17.7	☑	98	1	Landscape	-1.1, -4.4	☑
99	1	Landscape	1.6, -7.7	☑	100	10	Landscape	-10.0, 15.9	☑
101	10	Landscape	-9.9, 16.9	☑	102	10	Landscape	-8.0, 16.7	☑
103	1	Landscape	1.9, -9.6	☑	104	19	Portrait	-12.2, 8.7	☑
105	3	Landscape	-17.7, 19.5	☑	106	10	Landscape	-11.7, 17.1	☑

Panel	#	Layout	Position m	In layout	Panel	#	Layout	Position m	In layout
107	2	Landscape	-17.2, -16.7	☑	108	2	Landscape	1.6, -16.6	☑
109	2	Landscape	-0.3, -17.6	☑	110	2	Landscape	-17.2, -17.8	☑
111	7	Landscape	-12.5, 22.1	☑	112	3	Landscape	-13.8, 19.1	☑
113	3	Landscape	-8.0, 19.0	☑	114	1	Landscape	2.3, -5.7	☑
115	1	Landscape	-2.5, -2.7	☑	116	1	Landscape	2.2, -11.4	☑
117	2	Landscape	1.6, -17.6	☑	118	6	Portrait	-17.2, 4.7	☑
119	1	Landscape	-2.8, -0.9	☑	120	1	Landscape	2.0, 7.6	☑
121	24	Landscape	-11.9, -9.0	☑	122	1	Landscape	2.1, 19.1	☑
123	1	Landscape	-3.2, 1.0	☑	124	2	Landscape	-9.7, -18.8	☑
125	2	Landscape	-7.8, -18.7	☑	126	3	Landscape	-9.9, 18.7	☑
127	2	Landscape	-11.5, -18.8	☑	128	2	Landscape	-5.9, -18.7	☑
129	3	Landscape	-17.5, 18.5	☑	130	6	Portrait	-18.3, 4.7	☑
131	2	Landscape	-13.4, -18.8	☑	132	2	Landscape	-4.0, -18.7	☑
133	7	Landscape	-10.7, 22.3	☑	134	2	Landscape	-15.3, -18.8	☑
135	1	Landscape	1.7, 9.5	☑	136	3	Landscape	-15.6, 18.8	☑
137	1	Landscape	2.4, 5.8	☑	138	1	Landscape	1.3, 5.6	☑
139	6	Portrait	-18.3, 6.5	☑	140	2	Landscape	-2.1, -18.7	☑
141	2	Landscape	-17.2, -18.8	☑	142	1	Landscape	1.7, 3.7	☑
143	1	Landscape	2.0, 1.9	☑	144	1	Landscape	2.3, 0.0	☑
145	6	Portrait	-16.2, 4.7	☑	146	6	Portrait	-15.2, 4.7	☑
147	6	Portrait	-14.1, 4.7	☑	148	2	Landscape	-0.3, -18.7	☑
149	1	Landscape	2.4, 17.2	☑	150	2	Landscape	1.6, -18.7	☑
151	6	Portrait	-18.3, 2.8	☑	152	6	Portrait	-18.3, 0.9	☑
153	6	Portrait	-18.3, -1.0	☑	154	6	Portrait	-18.2, -2.9	☑
155	6	Portrait	-18.3, 8.4	☑	156	6	Portrait	-18.2, -4.7	☑
157	2	Landscape	-17.2, -19.8	☑	158	2	Landscape	-9.7, -19.8	☑
159	2	Landscape	-15.3, -19.8	☑	160	2	Landscape	-11.5, -19.8	☑
161	2	Landscape	-13.4, -19.8	☑	162	2	Landscape	-7.8, -19.8	☑
163	2	Landscape	-5.9, -19.8	☑	164	2	Landscape	-4.0, -19.8	☑
165	2	Landscape	-0.3, -19.7	☑	166	2	Landscape	-2.1, -19.7	☑
167	2	Landscape	1.6, -19.7	☑	168	9	Landscape	-13.4, -21.2	☑
169	9	Landscape	-15.3, -21.2	☑					

Not on record irradiance

 Existing panels

Not checked

● Not checked

 Not on record roof photo · analysed · resolution · photo date

 Energy & networks

~101,786 kWh/yr

 Heat need

Screening estimate

~101,786 kWh/yr
4 kWh/m²
As built; lower if insulated or re-glazed since

 Use	Office
 Built	2020
 Heated area	28,615 m² recorded
 Height	Measured
 Shared walls	Detached

From heat need to energy used

Heat need		101,786
Heat the building loses through walls, roof, windows and air changes in a year		
Energy input		114,367
Energy the heating system consumes to cover that need, including its own losses		

 Peak heating load ~1,046.4 kW at -12 °C outside

 Hot water ~154,749 kWh/yr about 2,862 people, at the use's typical occupancy

 Heat pump

Heat demand × occupancy ÷ SPF. SPFs are assumptions, not product ratings.

29,082–40,715 kWh/yr

SPF 2.5		40,715
101,786 kWh × 100% ÷ 2.5		
SPF 3.0		33,929
101,786 kWh × 100% ÷ 3.0		
SPF 3.5		29,082
101,786 kWh × 100% ÷ 3.5		

 Heating	Centrální dálkové - uhlí	 Gas connection	Bez plynu
 Water supply	S vodovodem	 Sewer connection	Přípoj na kanalizační síť
 Heating system	Centrální dálkové - uhlí As recorded	 Gas network	Bez plynu As recorded

 How the heating estimate is calculated

Screening · remote-measurement volume input, archetype fabric

 Heat loss per m² of envelope		Typical values W/m²K	
Windows		1.20 W/m²K	
Walls		0.25 W/m²K	
Roof		0.20 W/m²K	
Floor		0.40 W/m²K	
 Assumed conditioned floor	28,615 m² Usable floor area, as recorded	 Assumed conditioned volume from remote measurement	75,611 m³
 Height	Measured	 Wall area	17,745 m²
 Walls against neighbours	0 m²	 Window area	2,484 m²
 Whole-building heat loss	17,777.9 W/K	 Heating system performance factor	0.89 Assumed
 Indoor design temperature	20.0 °C Screening profile	 Outdoor design temperature	-12.0 °C National standard
 Construction period	2011 onwards As recorded: completed 2020 · sets the typical fabric values	 Heating energy	District heating As recorded

Fallback assumptions: fabric U-values, conditioned volume, conditioned floor area, air changes, thermal bridges, system performance, occupancy, indoor design temperature.

 Not on record heating CO₂ · heating bills · district heating · electrical supply · outdoor-unit siting

 Climate

 Heating degree-days, 1991-2020

3,257

Gridded climate data for this location, not an on-site measurement.

 Location & identity

1 address

 Kolbenova 1021/9
190 00 · Praha

Shown

 Declared use	stavba pro administrativu	 Built	2020
 Coordinates	50.111139, 14.517450	 Building ID	32103dd0-7d89-4b10-9329-38e68d24cdef

 Data as of

 Building record read	Oct 3, 2026	 Roof imagery	Oct 5, 2022
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 All recorded fields

Building

Declared use	stavba pro administrativu	Building type	budova s číslem popisným
Municipality	Praha	Completed	2020-09-30
Floors above and below ground	22	Flats	0
Built-up area	1,114 m²	Floor area	28,615 m²
Enclosed volume	123,900 m³	Heating	Centrální dálkové - uhlí
Gas	Bez plynu	Water	S vodovodem
Sewer	Přípoj na kanalizační síť	Lift	S výtahem
Construction	Monolit	Cadastre building ID	41865045010
Identifying parcel ID	80515823010		

 Businesses

10

 Registered businesses

10

 Largest stated size

1,500–1,999 LKQ CZ s.r.o.

Business	Tax ID	Employees
42 Prague z. ú.	14064570	10–19
Asunto s.r.o.	22217738	—
Digiteq Automotive s.r.o.	26466023	500–999
FortiFox Technologies, a.s.	17662087	25–49
Hegelmann Transporte s.r.o.	06069771	50–99
KELPIAN, s.r.o.	14258871	—
LKQ CZ s.r.o.	24787426	1,500–1,999
Pierre Fabre s.r.o.	27602389	50–99
STELARIO Corporation s.r.o.	22440313	—
Volkswagen Group Digital Solutions Private Limited, odštěpný závod	21716323	25–49

A registered office here proves neither ownership nor occupancy.

 Not on record largest turnover