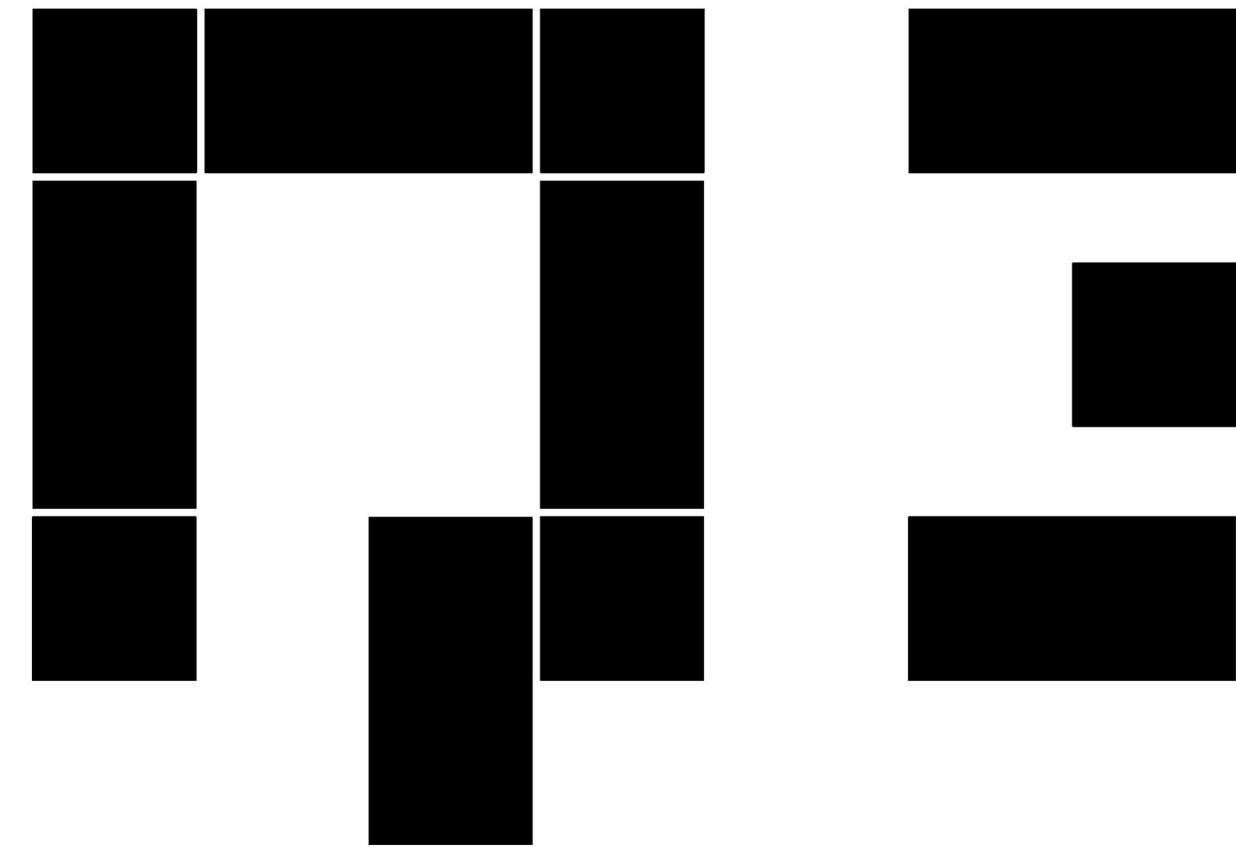


BAUHAUS

URBAN

ENERGY





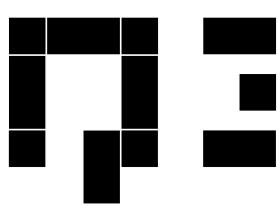
Niklas Neumann, Martin Šálek, Luisa Woll, Stina Amrhein, Max Krauß

# GLIEDERUNG



Randbedingungen  
Standortanalyse  
Architektonisches Konzept  
Nutzungskonzept  
Betriebskonzept  
Konstruktion  
Statisches System  
Energiekonzept  
Kosten  
Zusammenfassung

# RANDBEDINGUNGEN



# STANDORTANALYSE

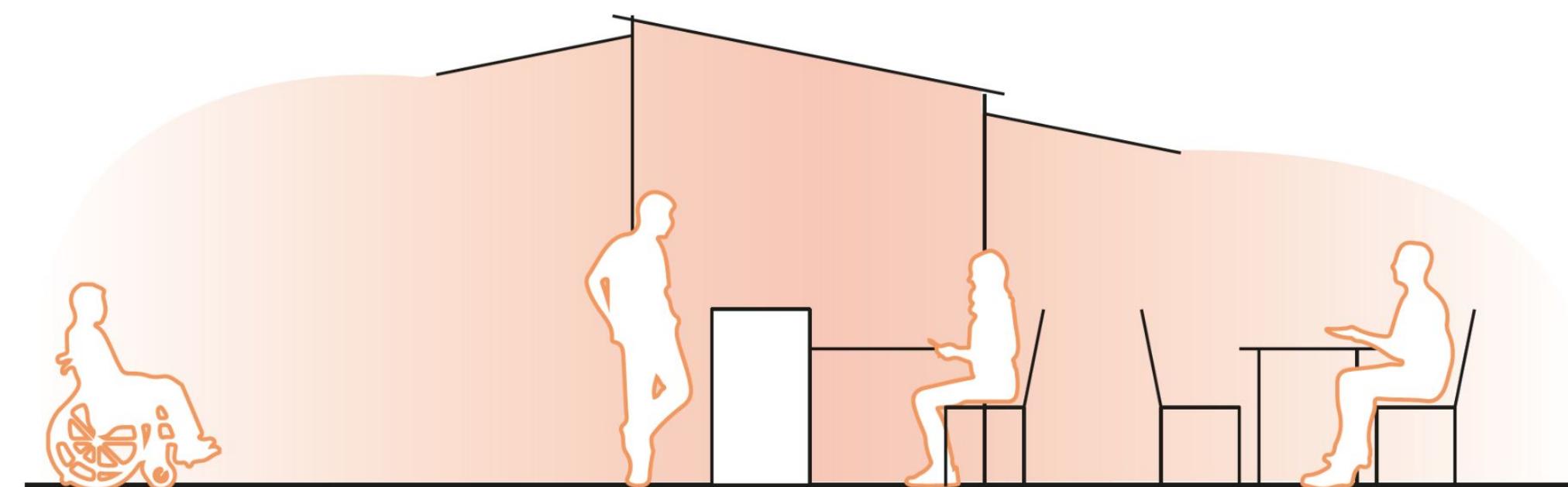
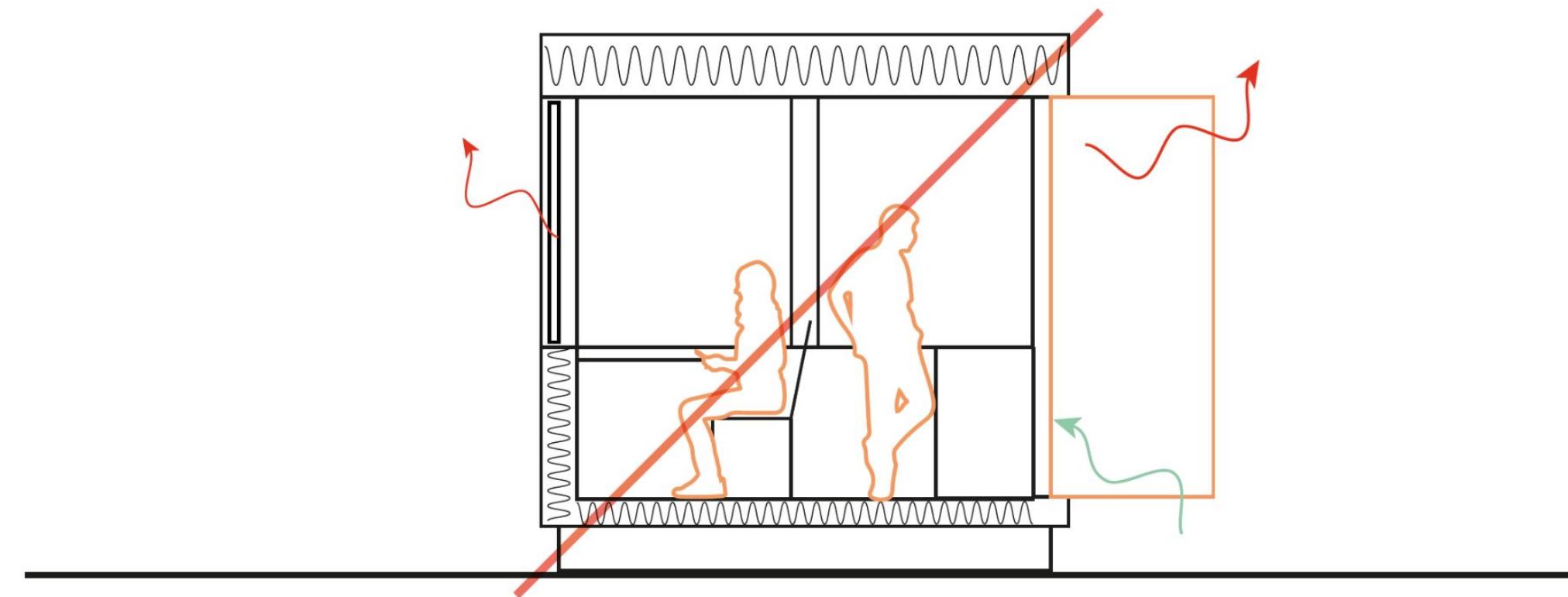
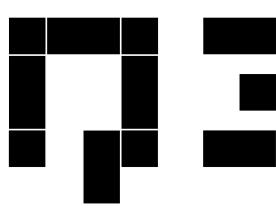
PR



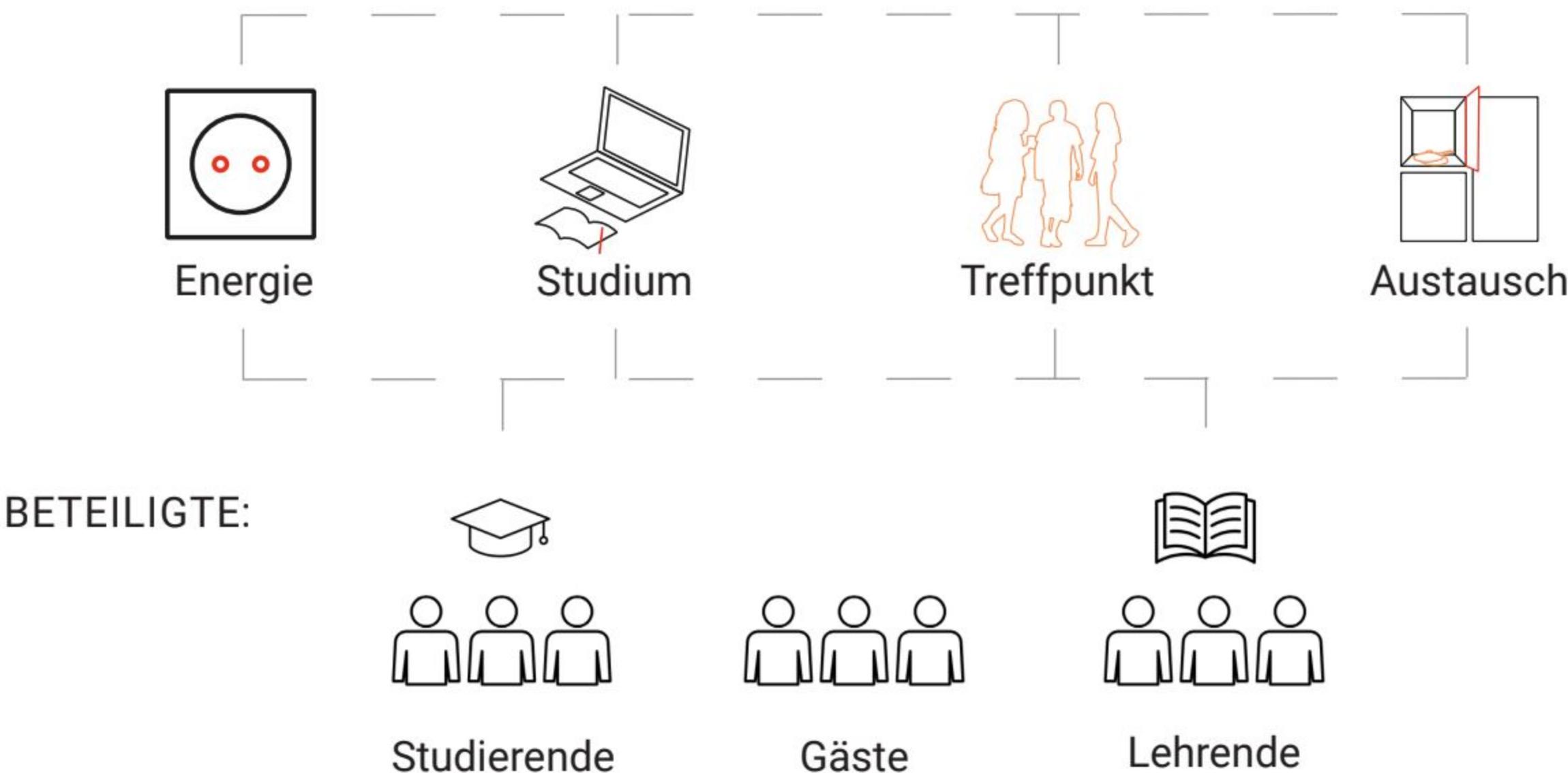
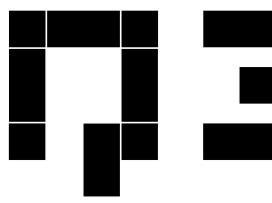


# Konzept

# ARCHITEKTONISCHES KONZEPT



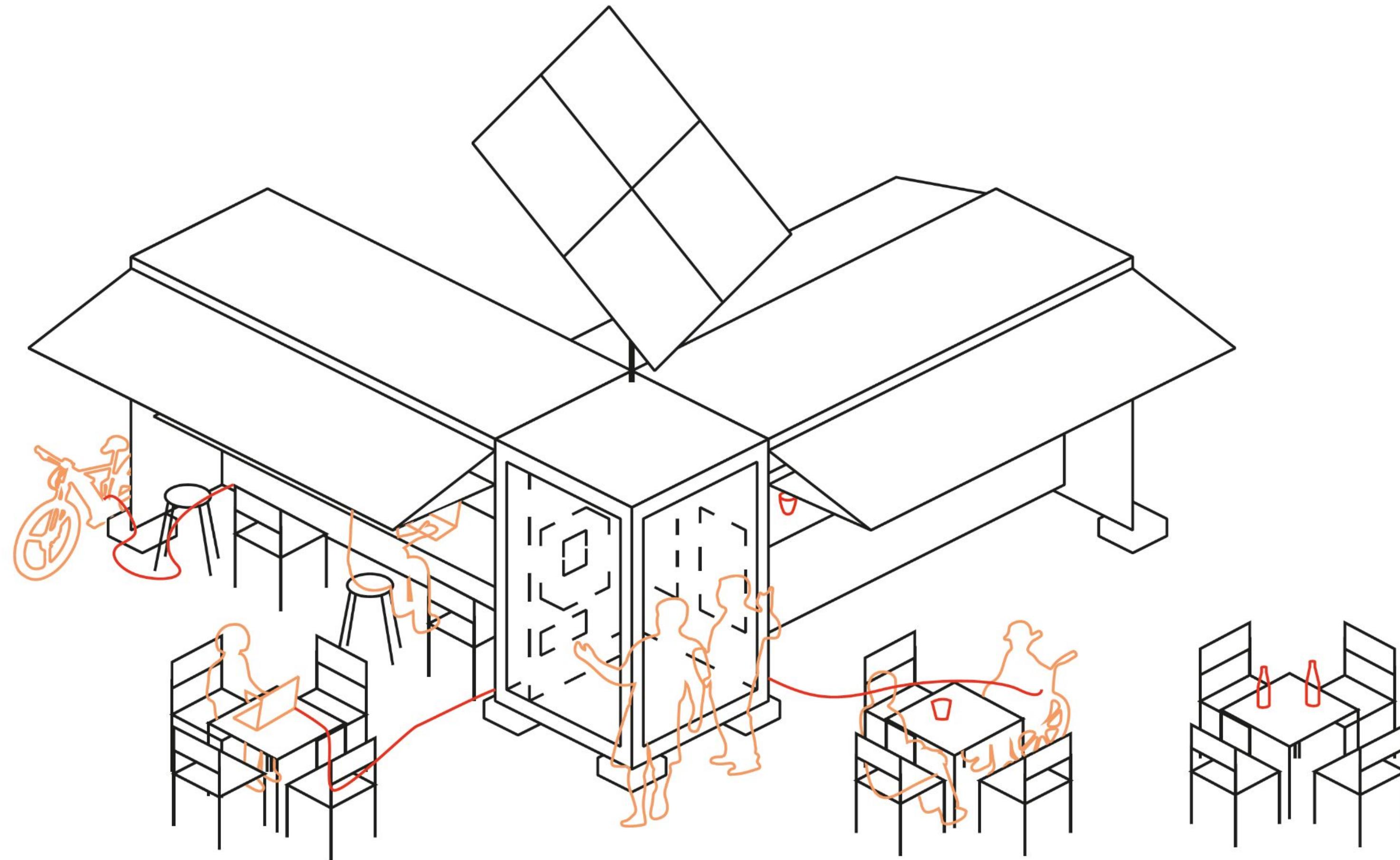
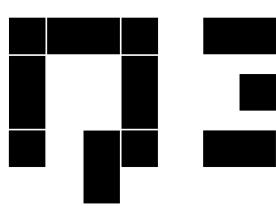
# NUTZUNGSKONZEPT



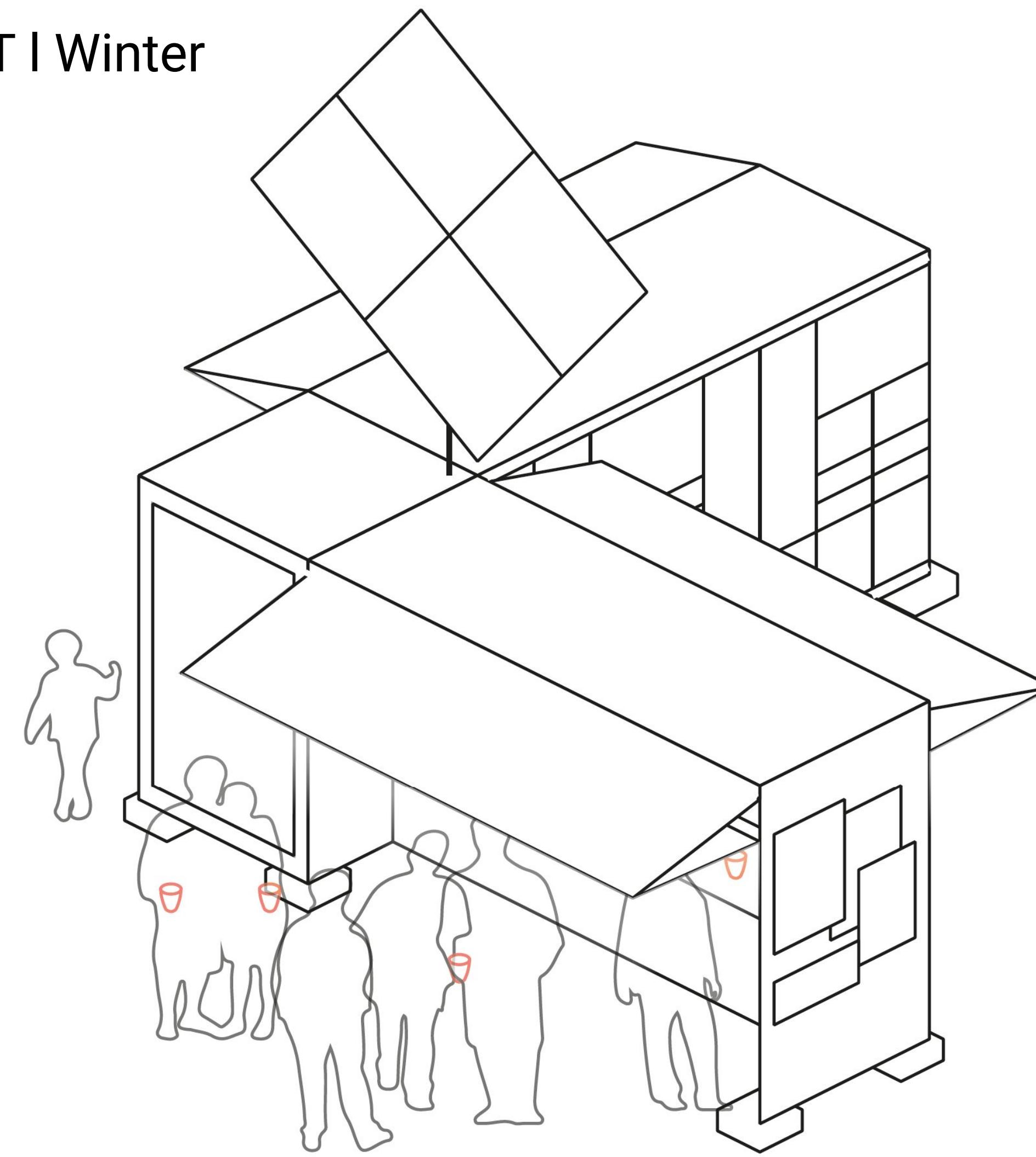
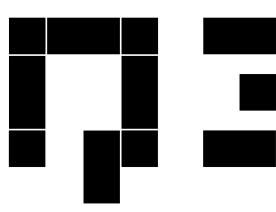
# NUTZUNGSKONZEPT

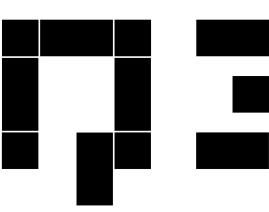


# NUTZUNGSKONZEPT I Sommer



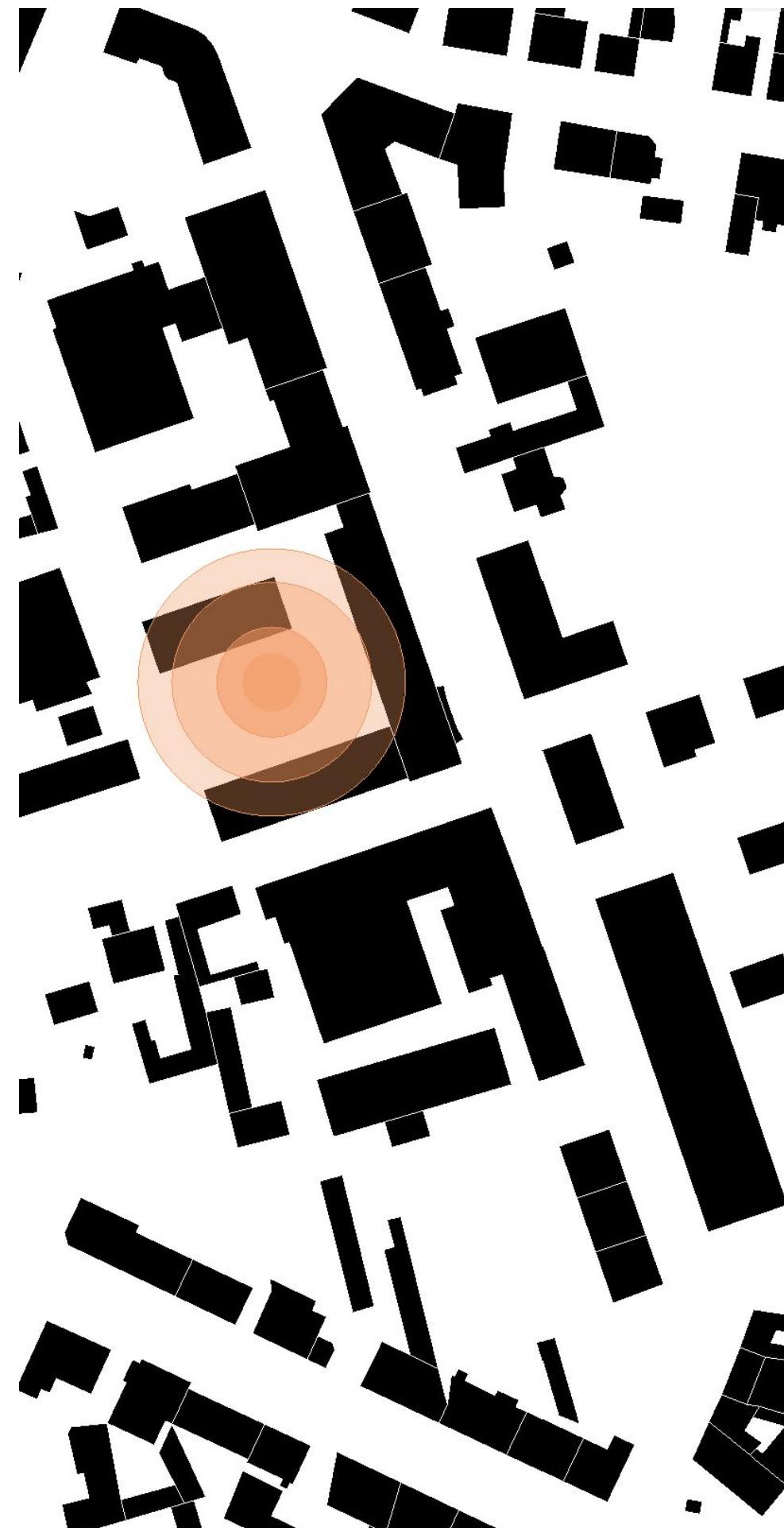
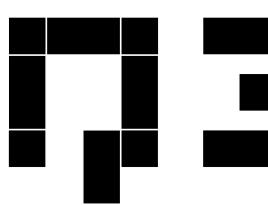
# NUTZUNGSKONZEPT I Winter





**Q3 ≈ M18**

# BETRIEBSKONZEPT



## BETREUUNG:

- Initiativen

## ANGEBOT:

- Getränke, Energie, Arbeitsplätze, Austausch

## PERSONAL:

- 1-2 Freiwillige Studierende (kein Lohn)

## NUTZUNG:

- Sommer und Winter unterschiedlich
- besondere Anlässe (go4spring, Feste, ...)

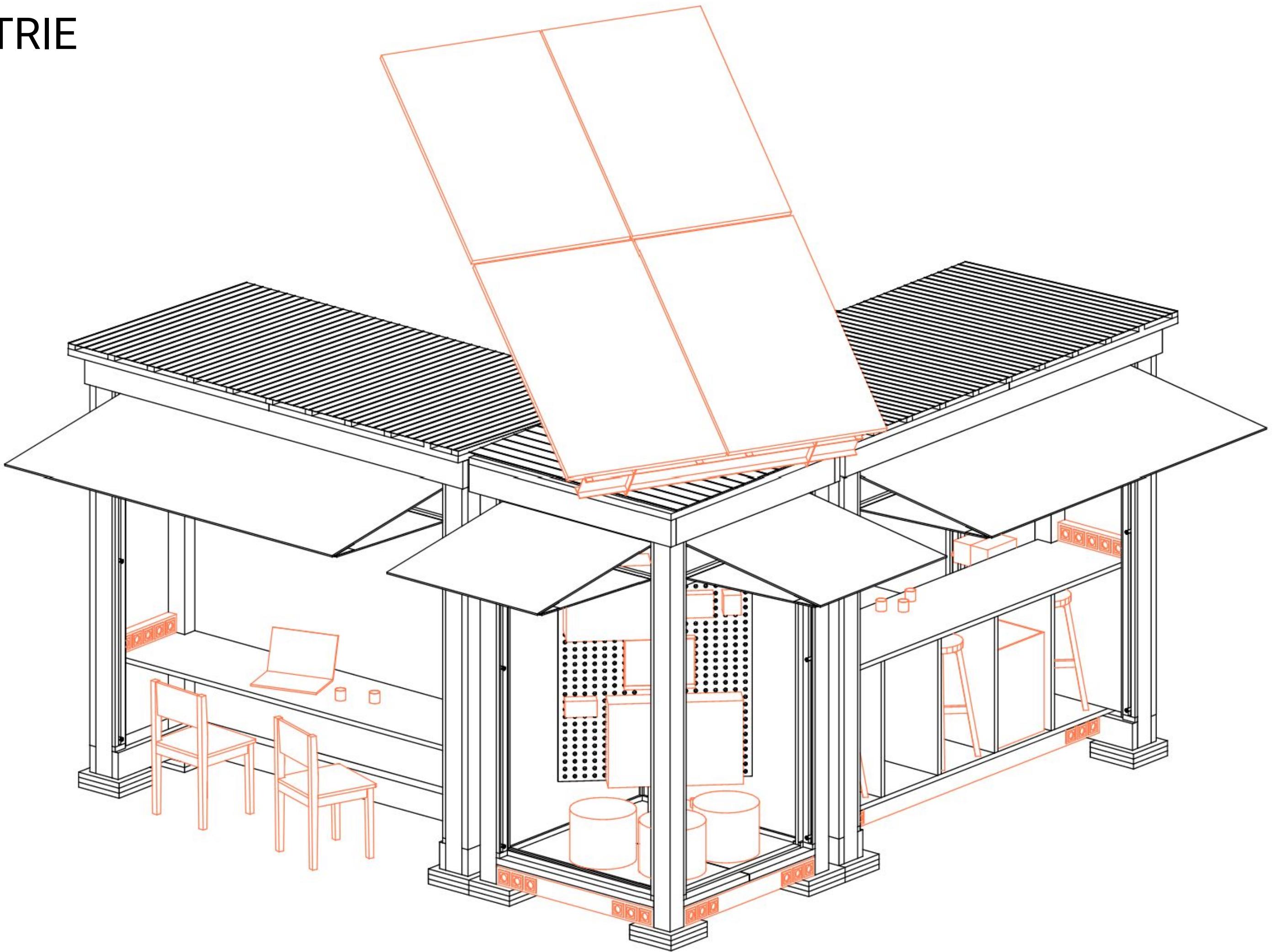
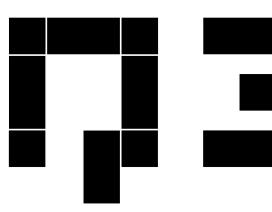
## ERWEITERUNG

- Floh- oder Weihnachtsmärkte

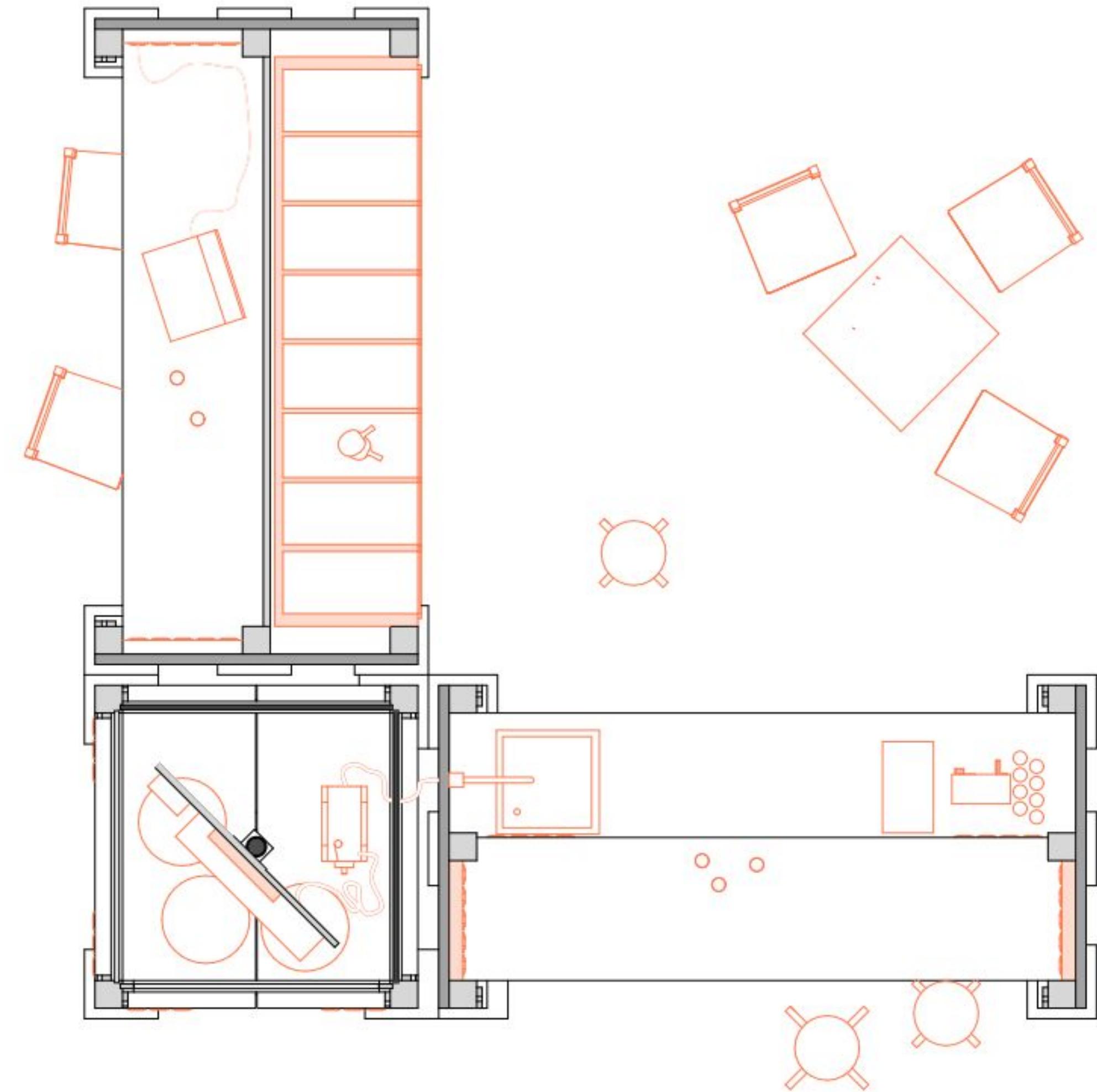
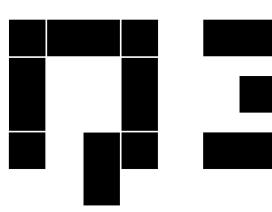
# Konstruktion



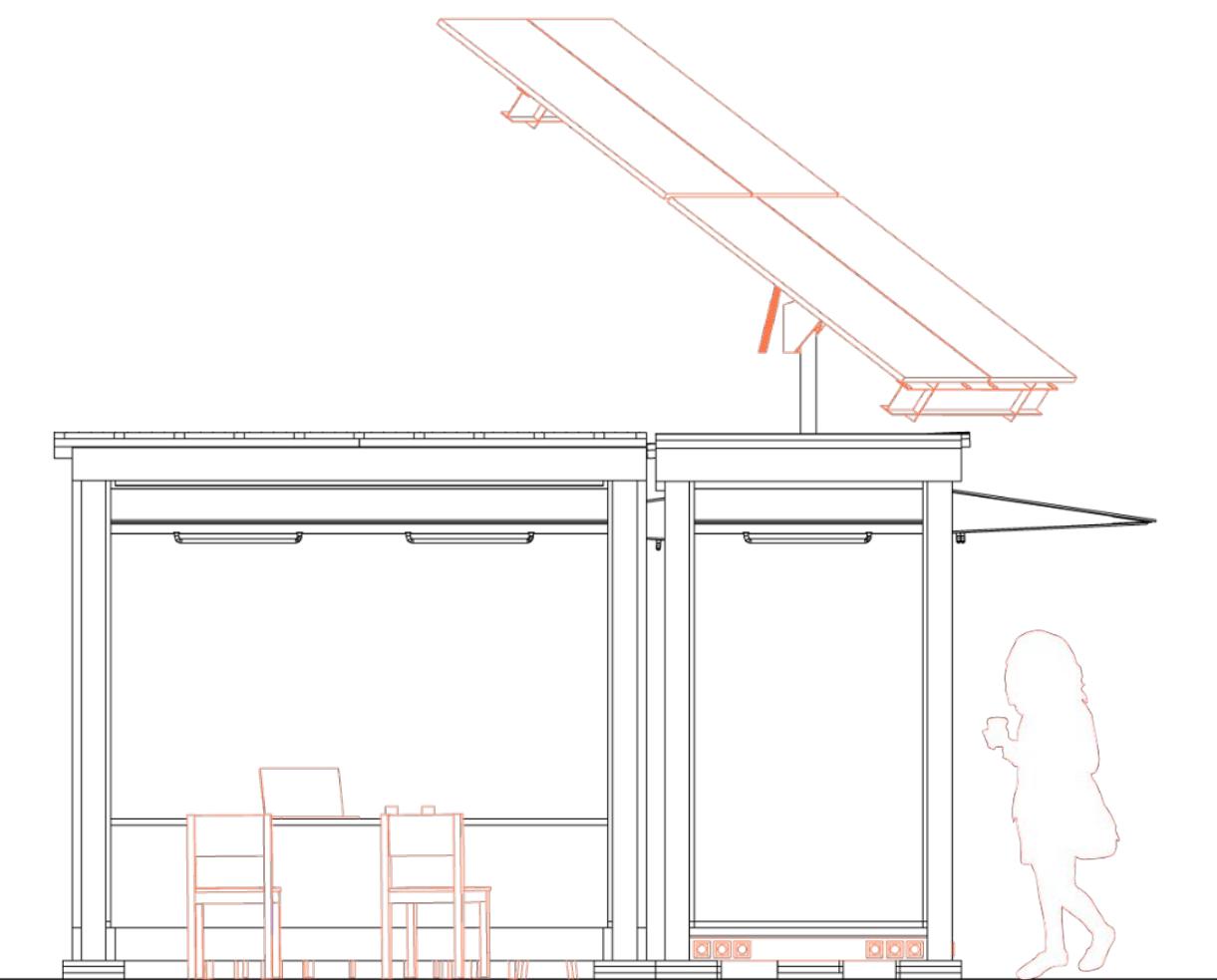
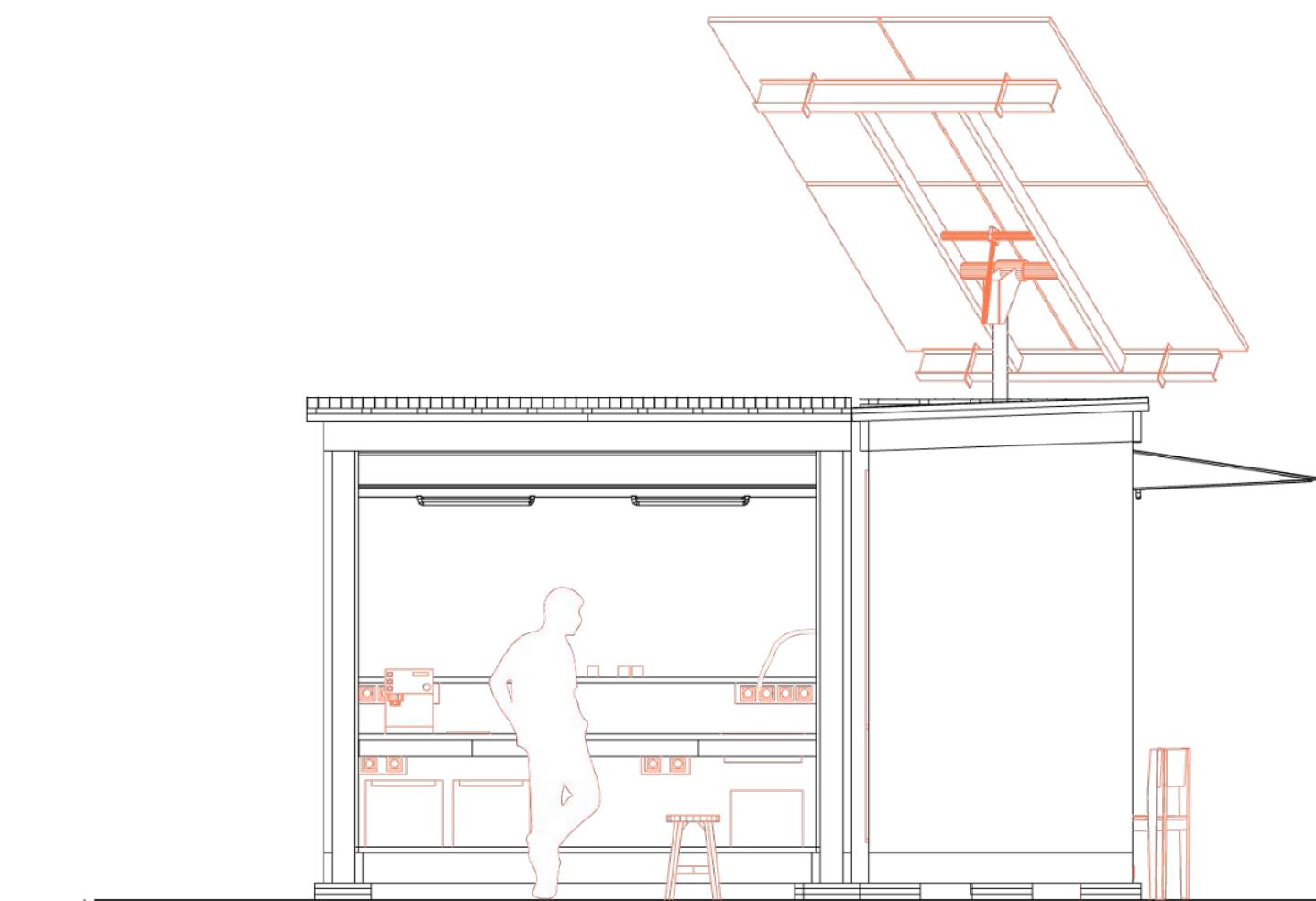
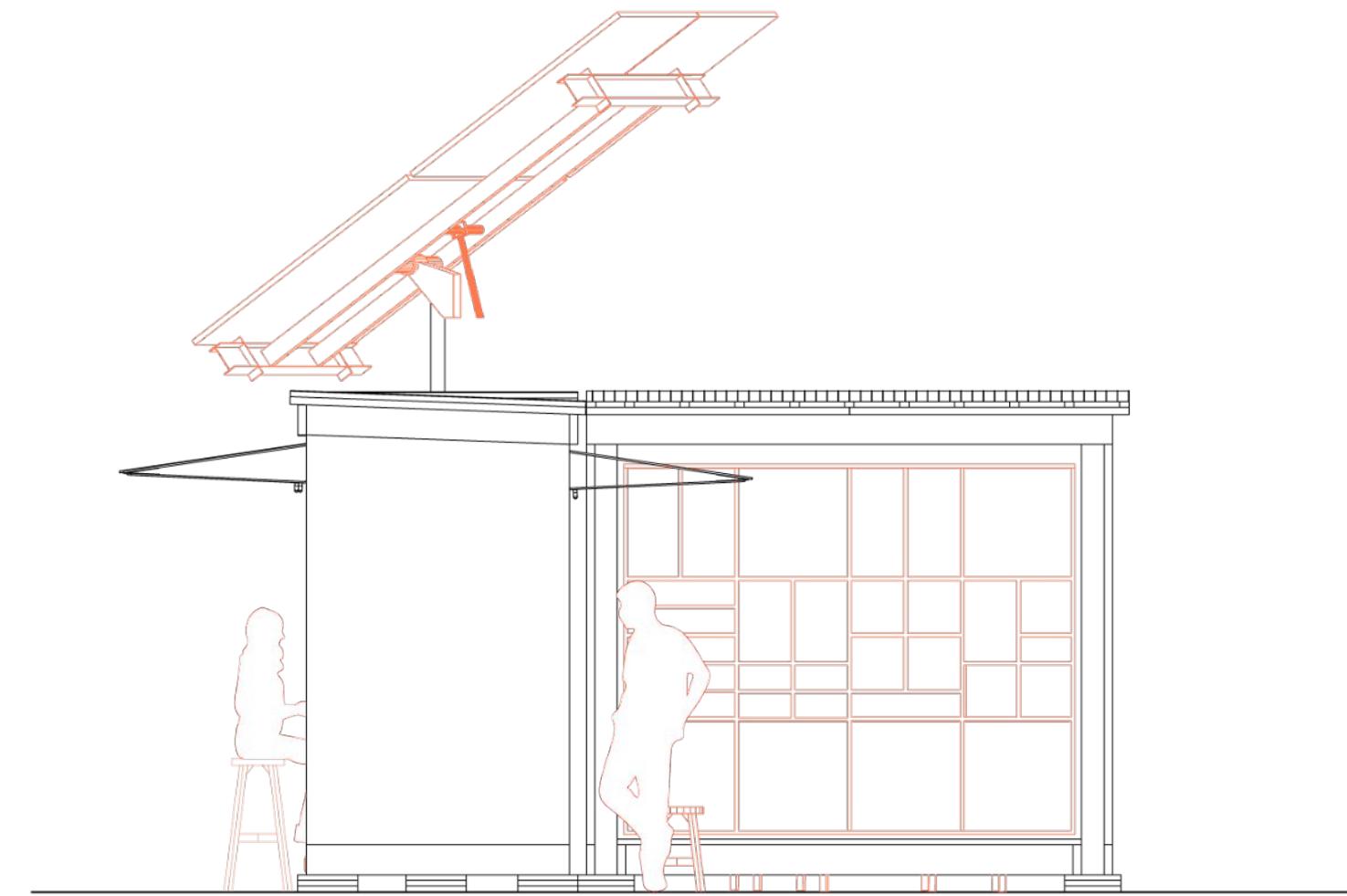
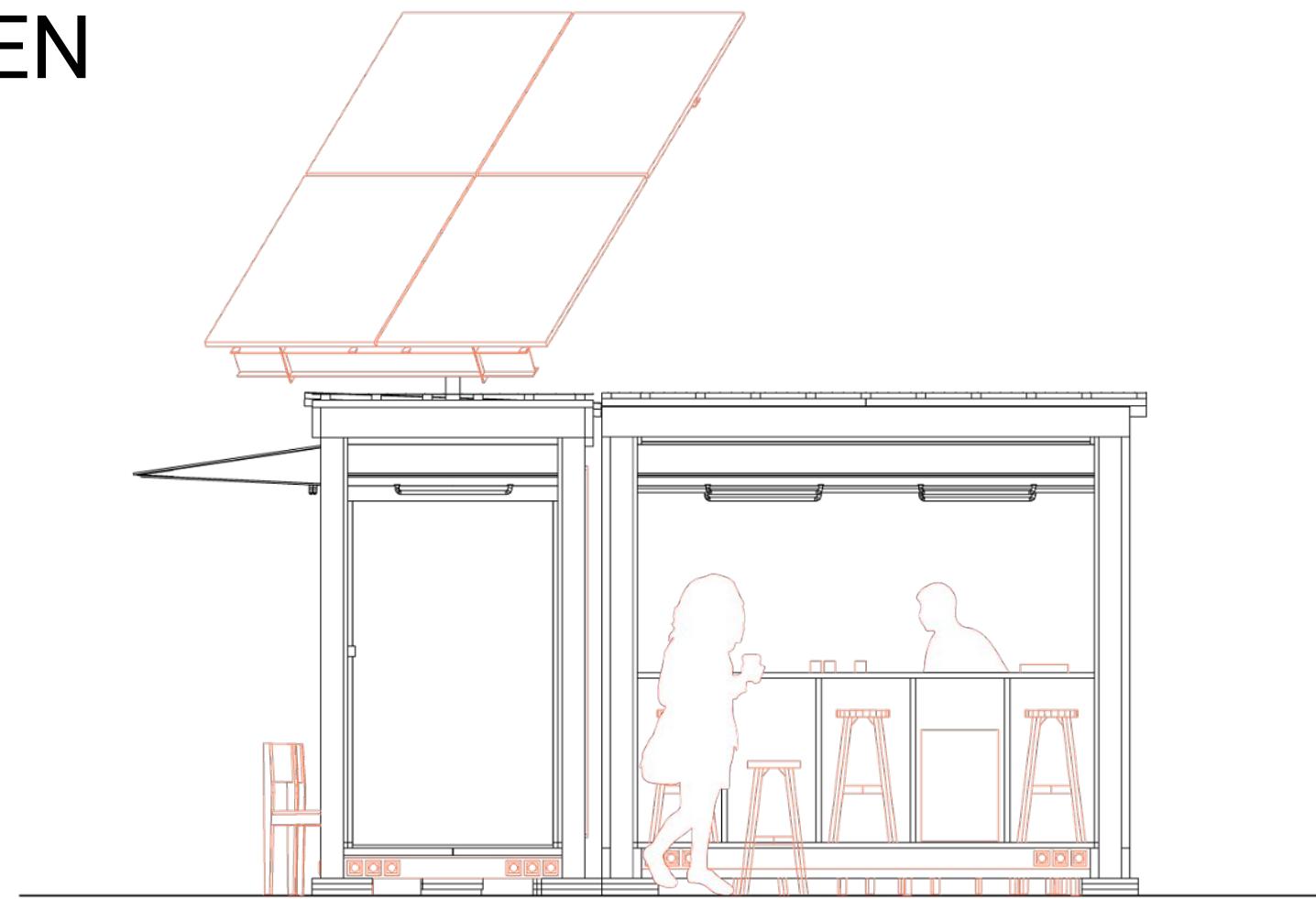
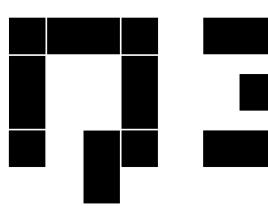
# AXONOMETRIE



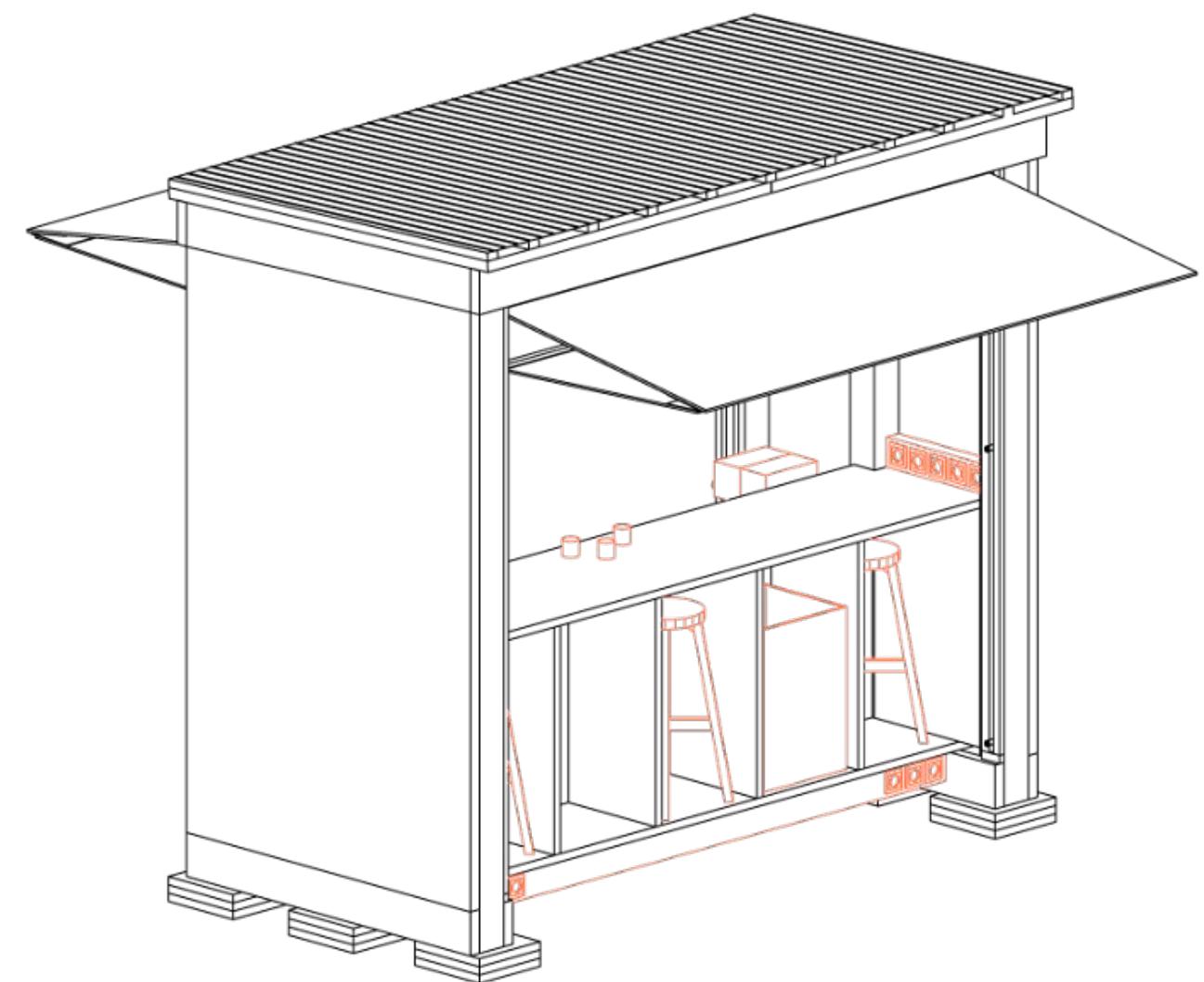
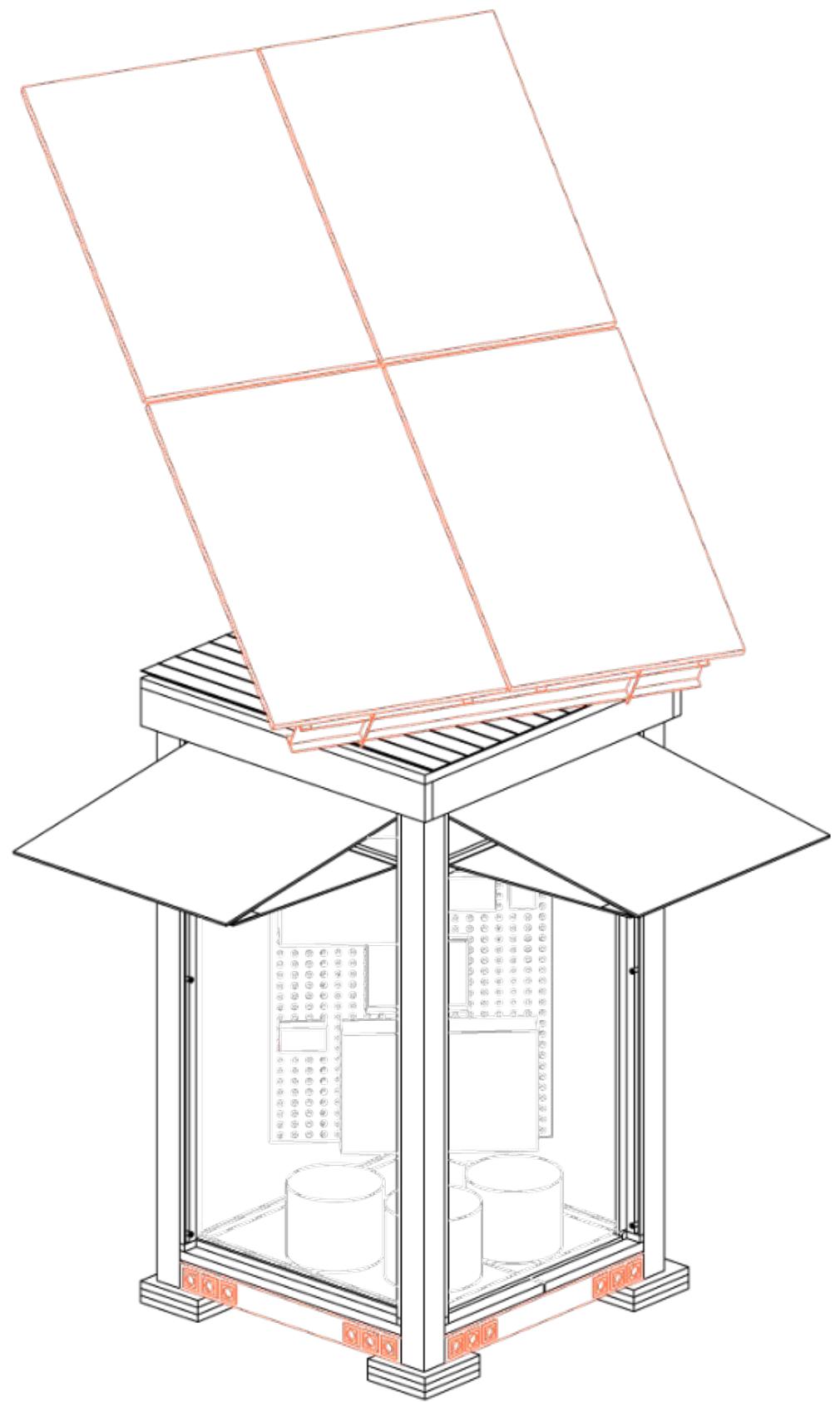
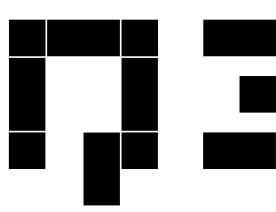
# GRUNDRISS



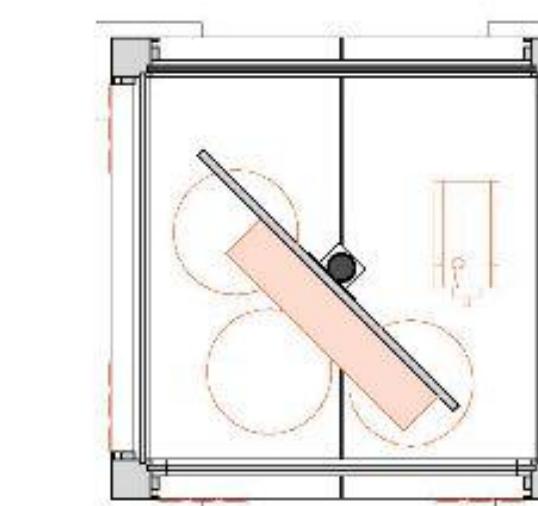
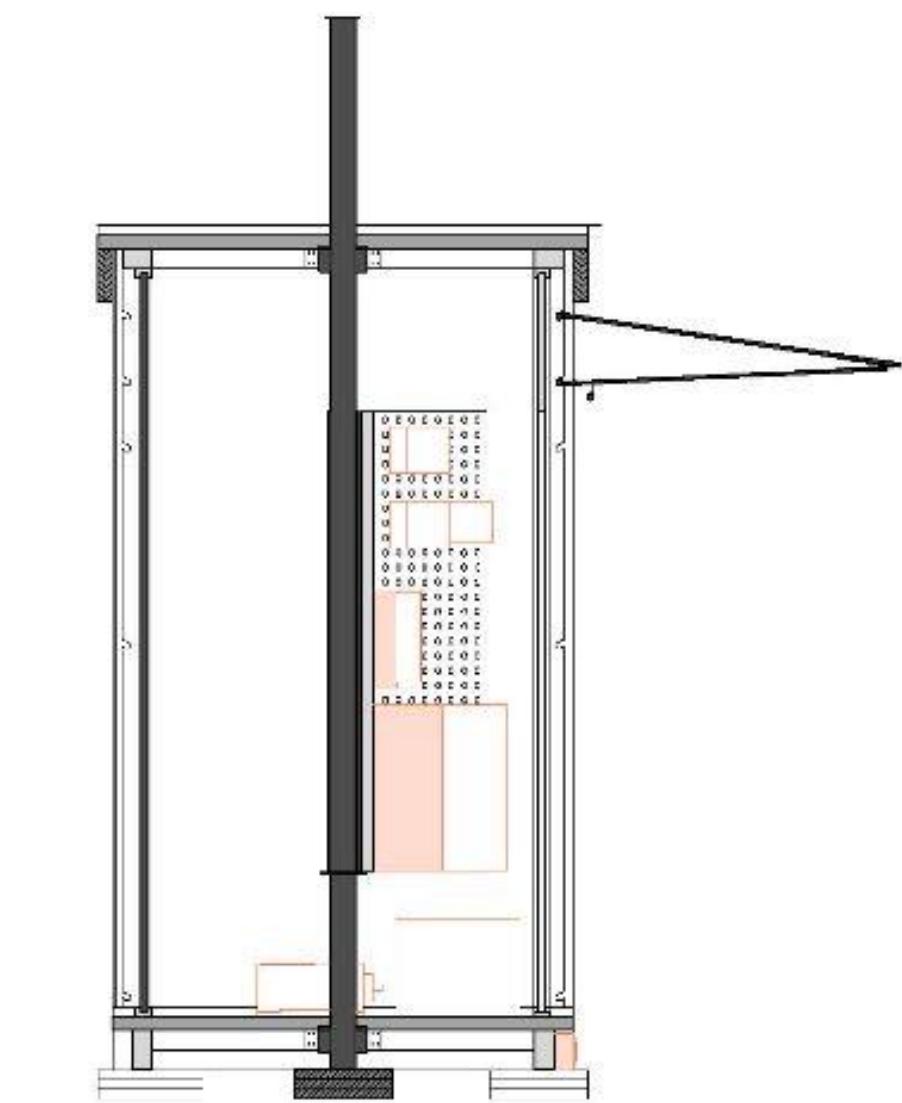
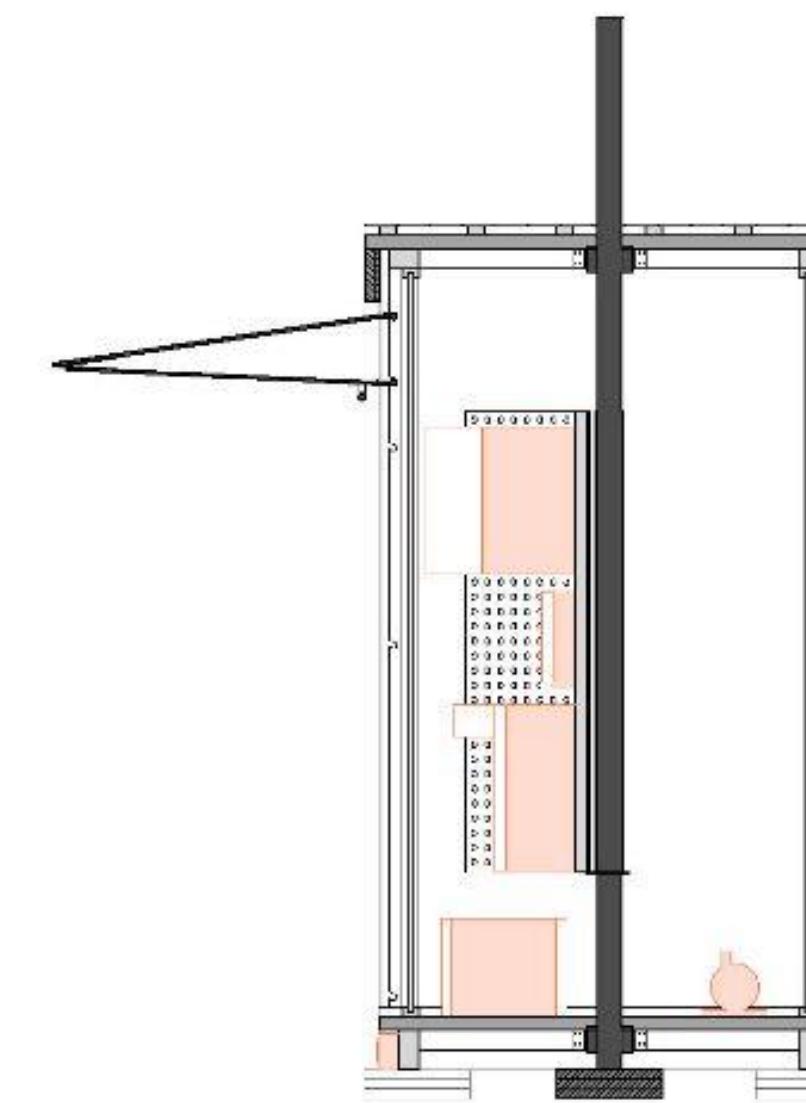
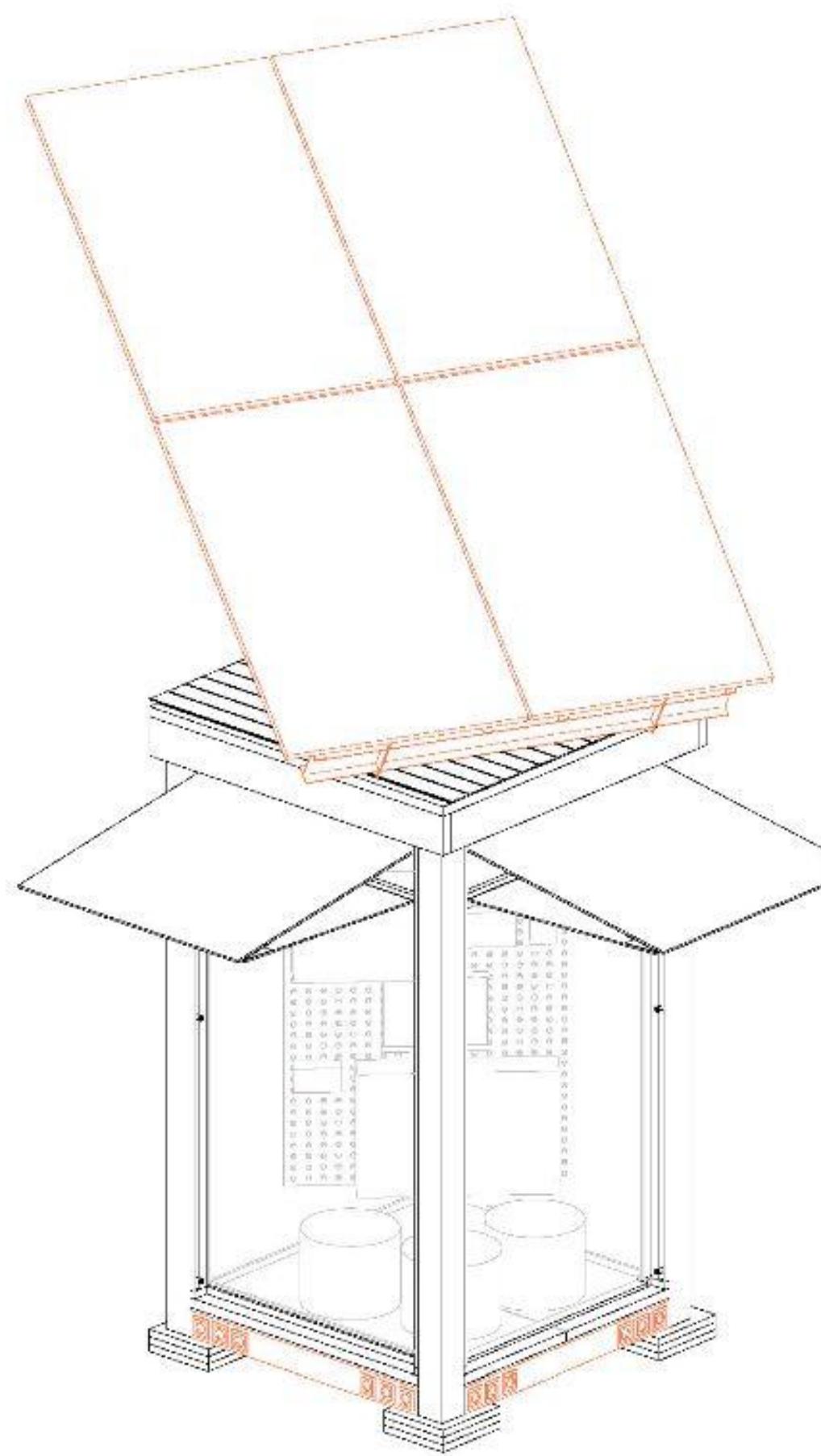
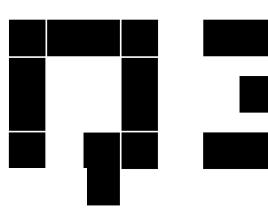
# ANSICHTEN



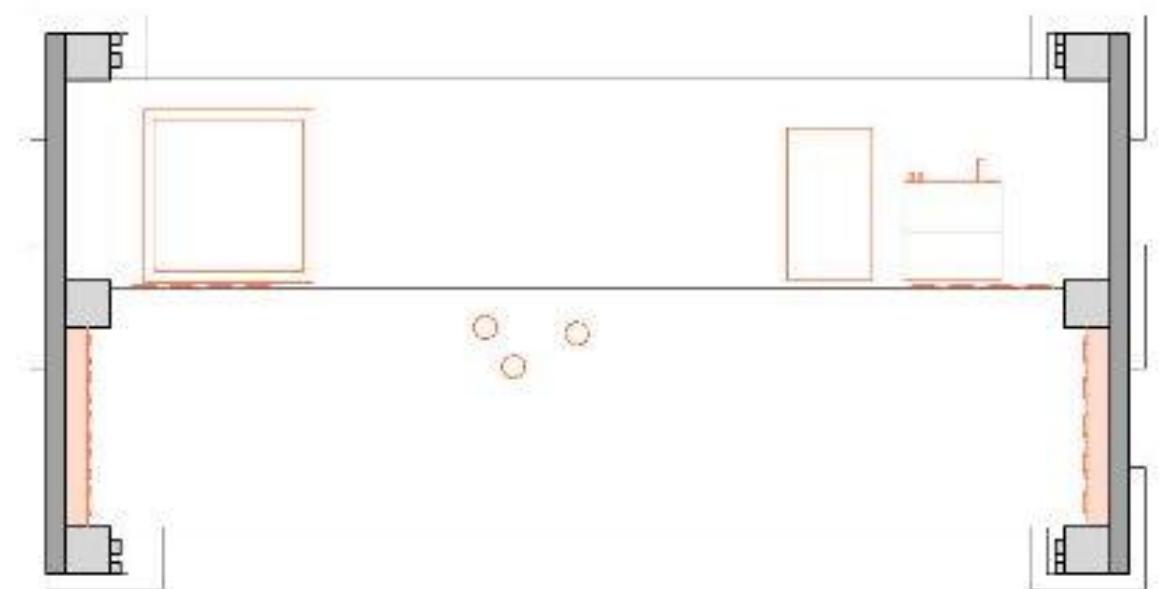
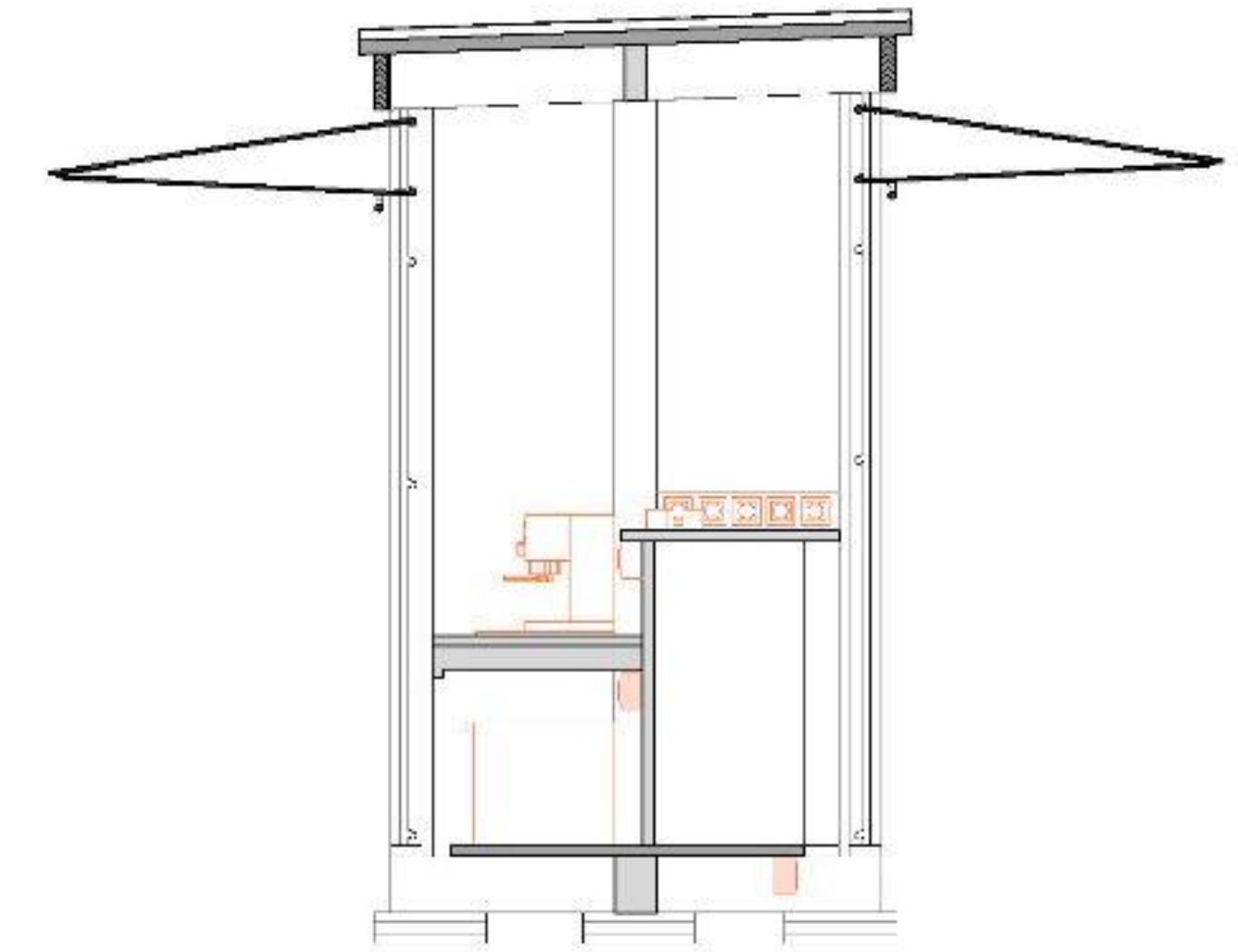
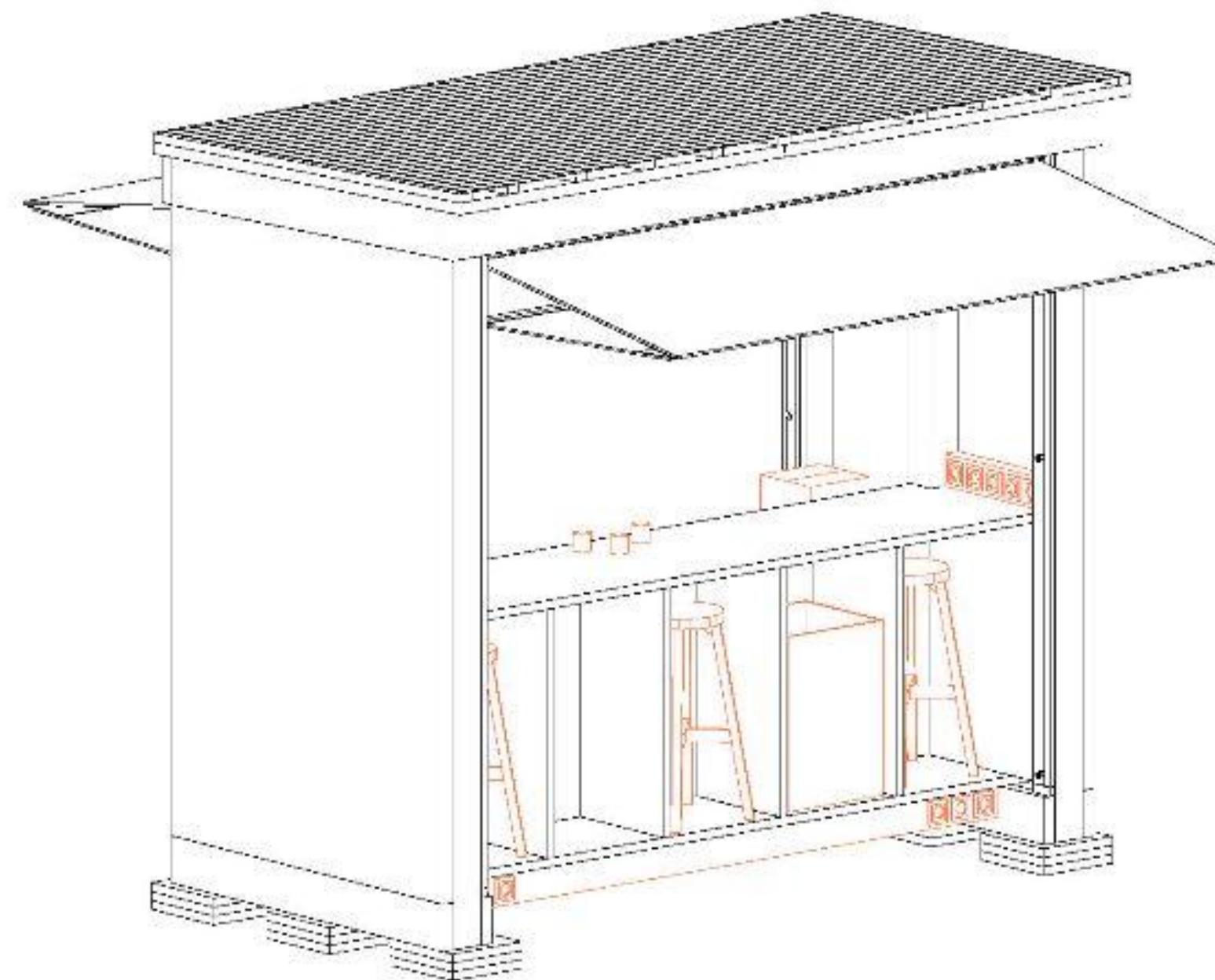
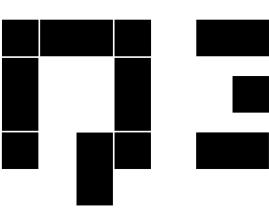
# AXONOMETRIE | Module



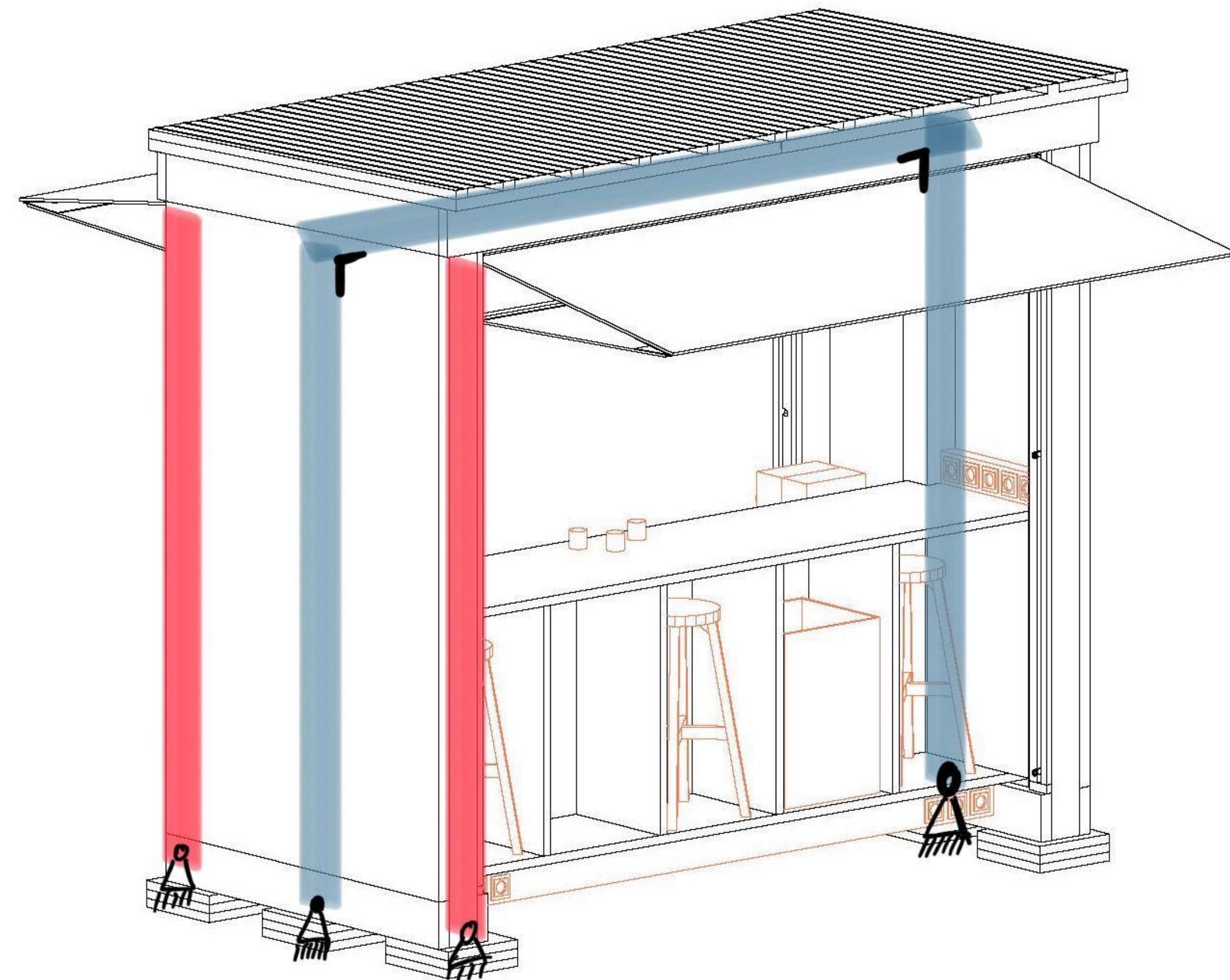
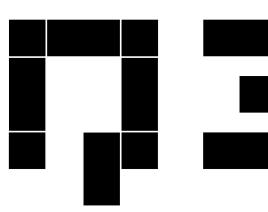
# TECHNIKMODUL



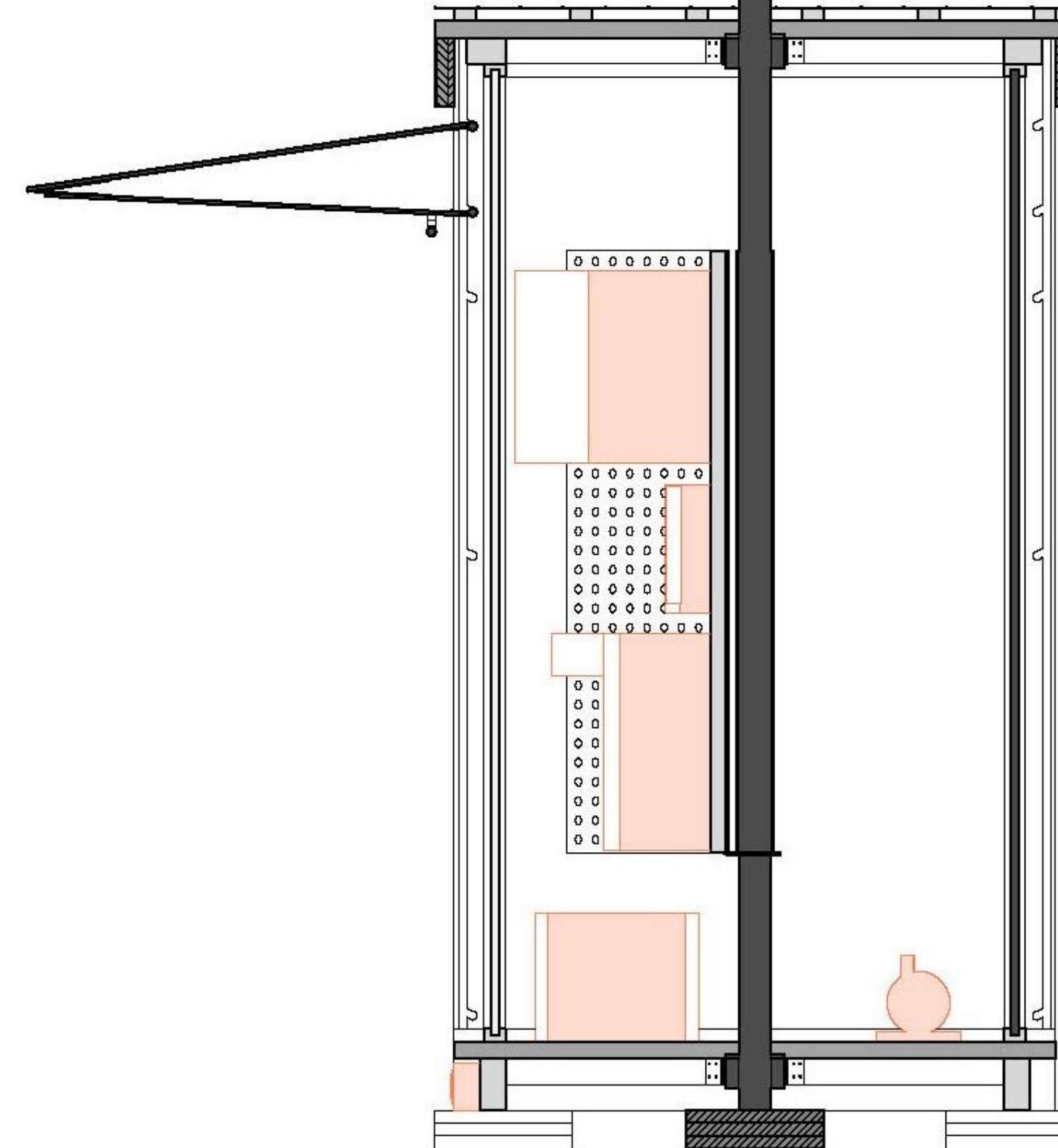
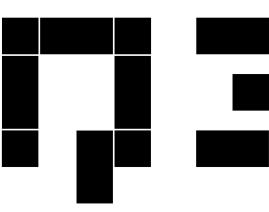
# NUTZUNGSMODULE



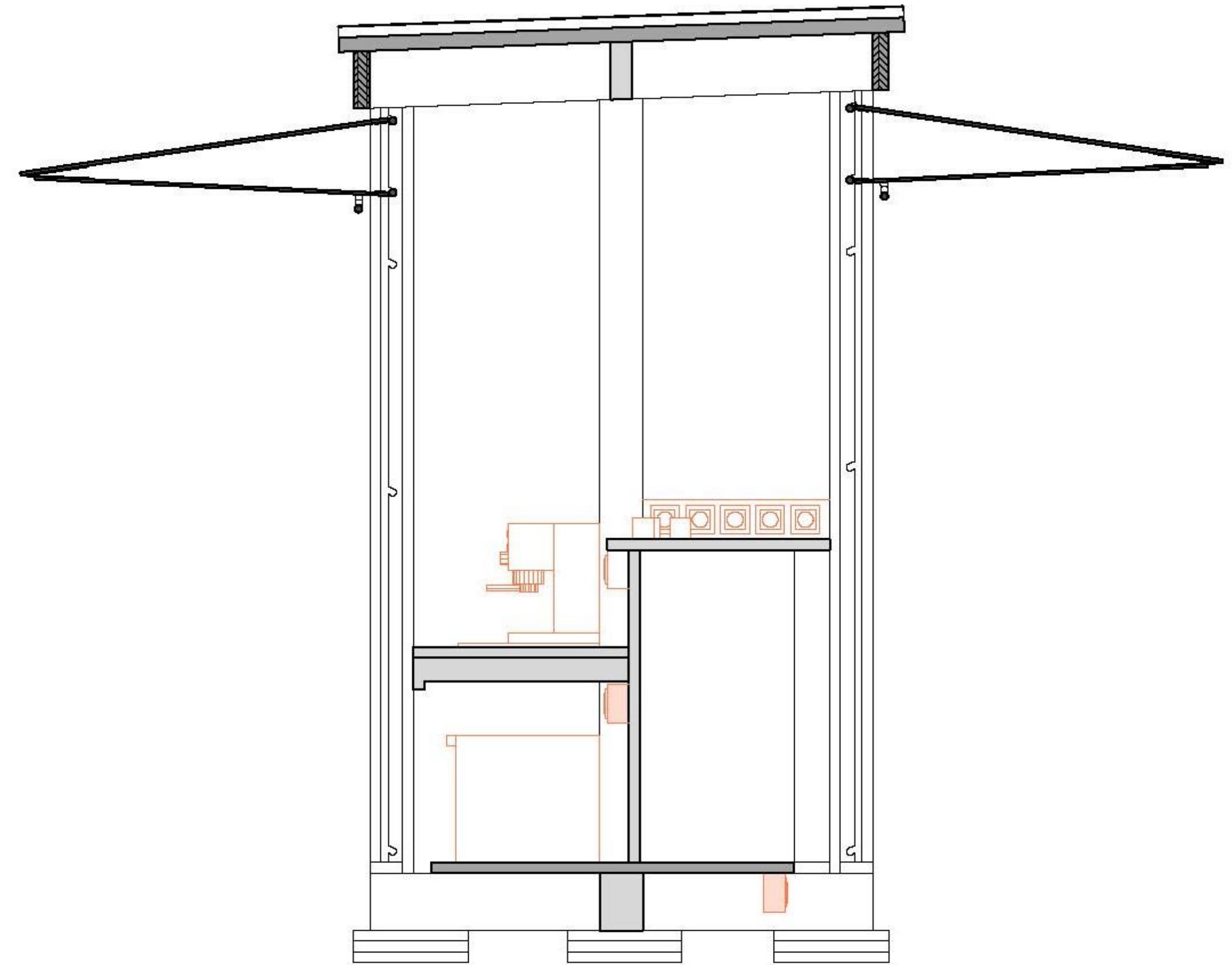
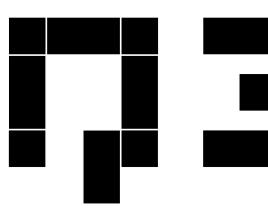
# STATISCHES SYSTEM



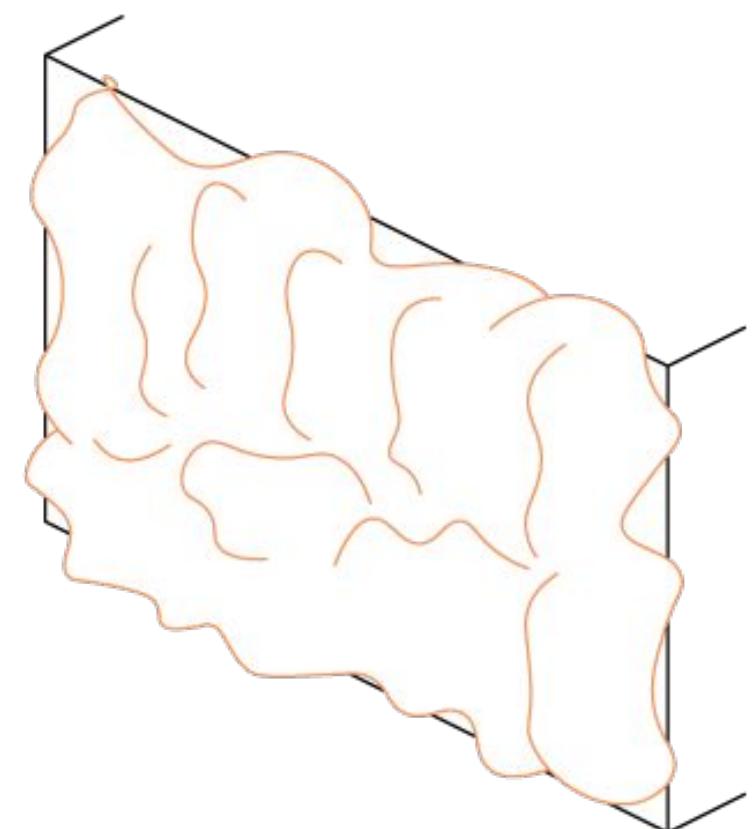
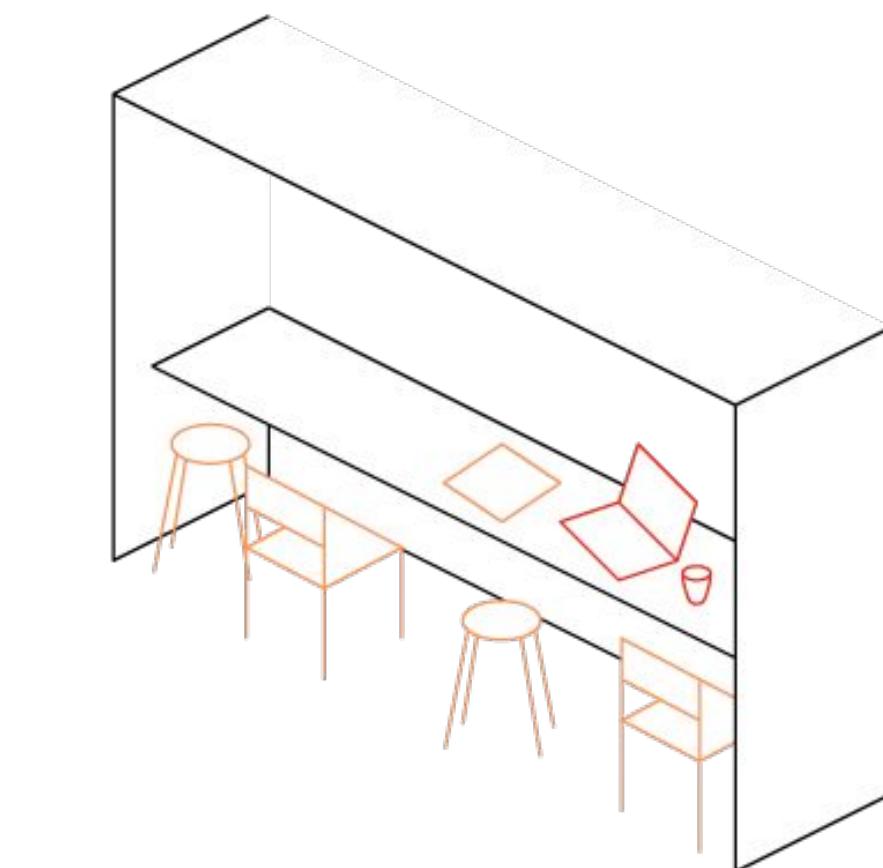
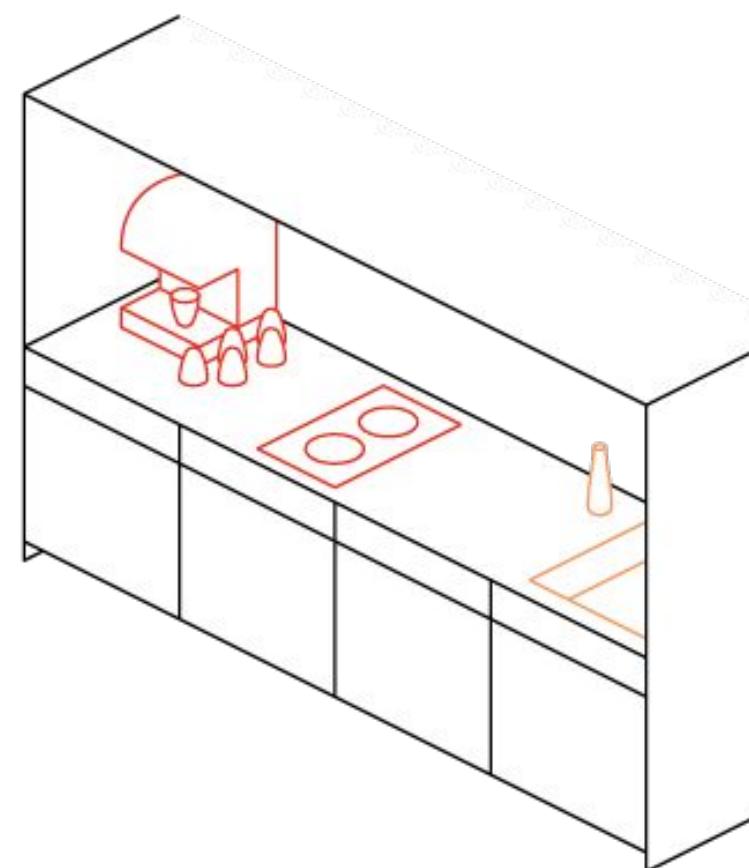
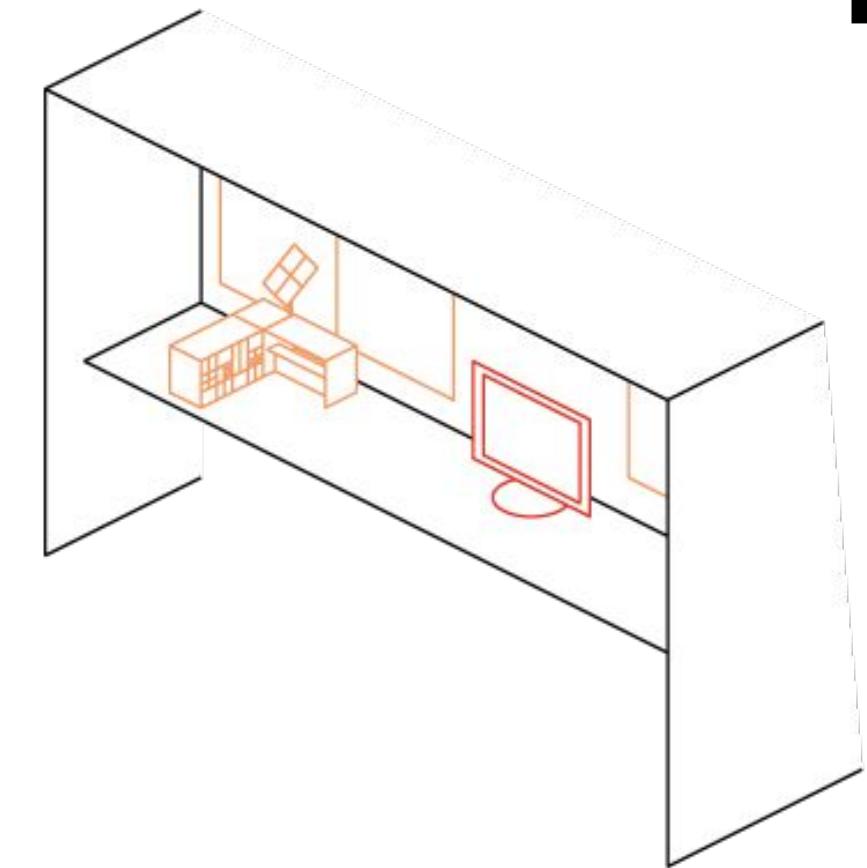
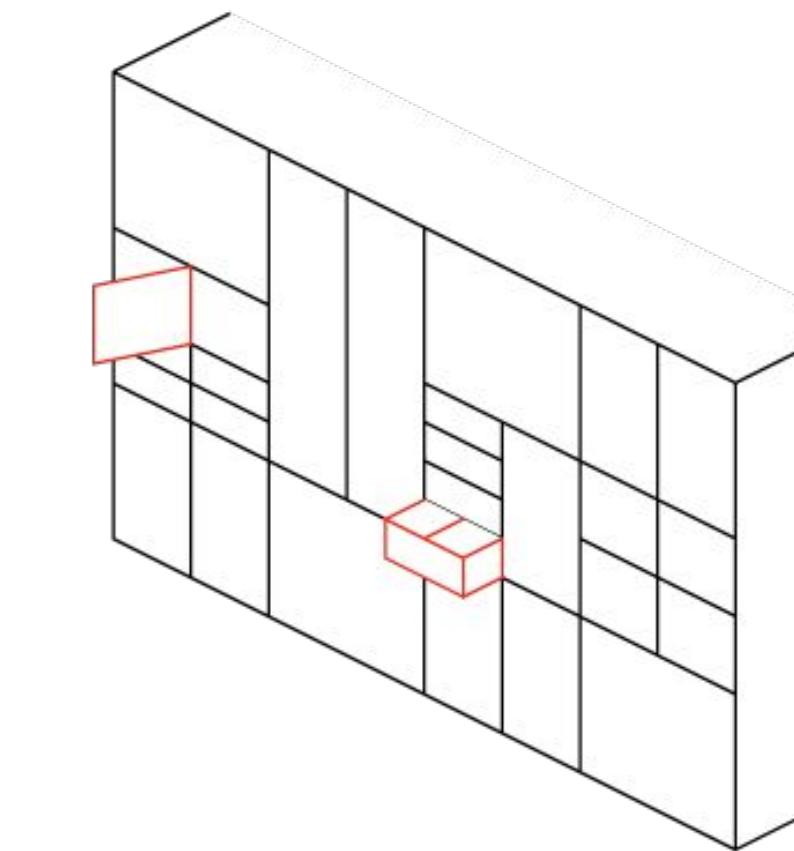
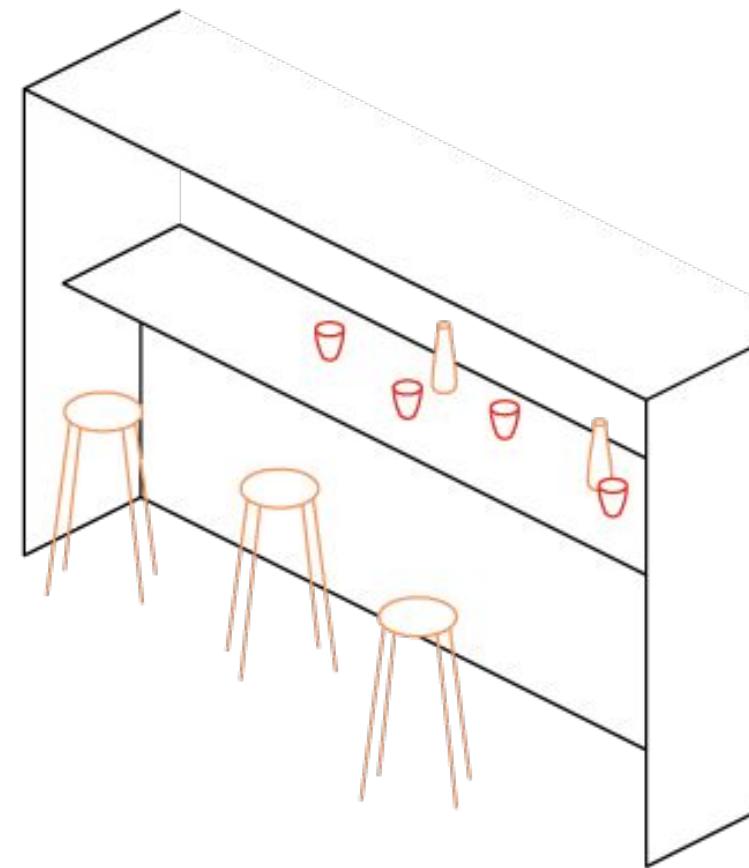
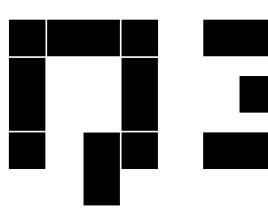
# Statisches System



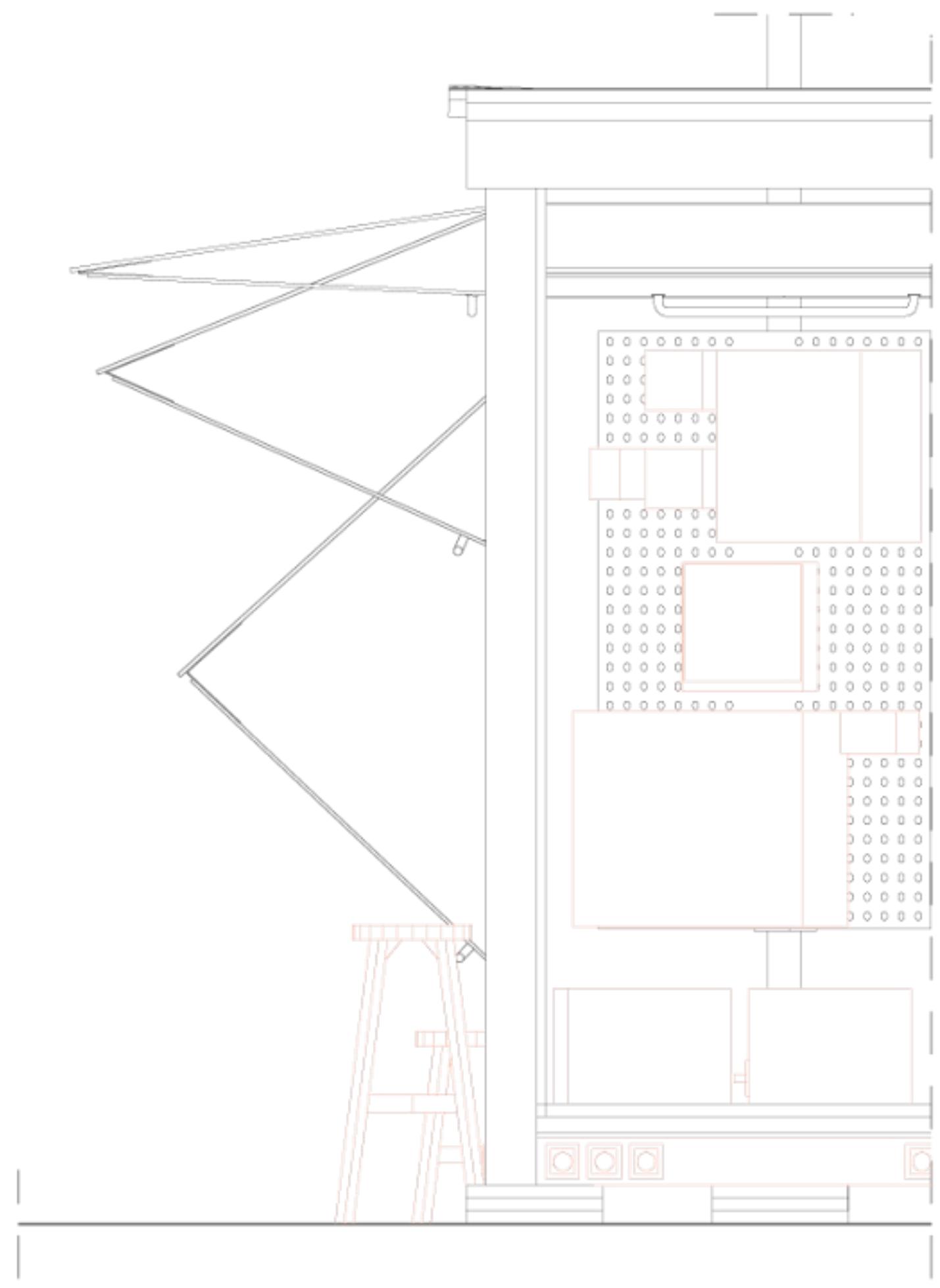
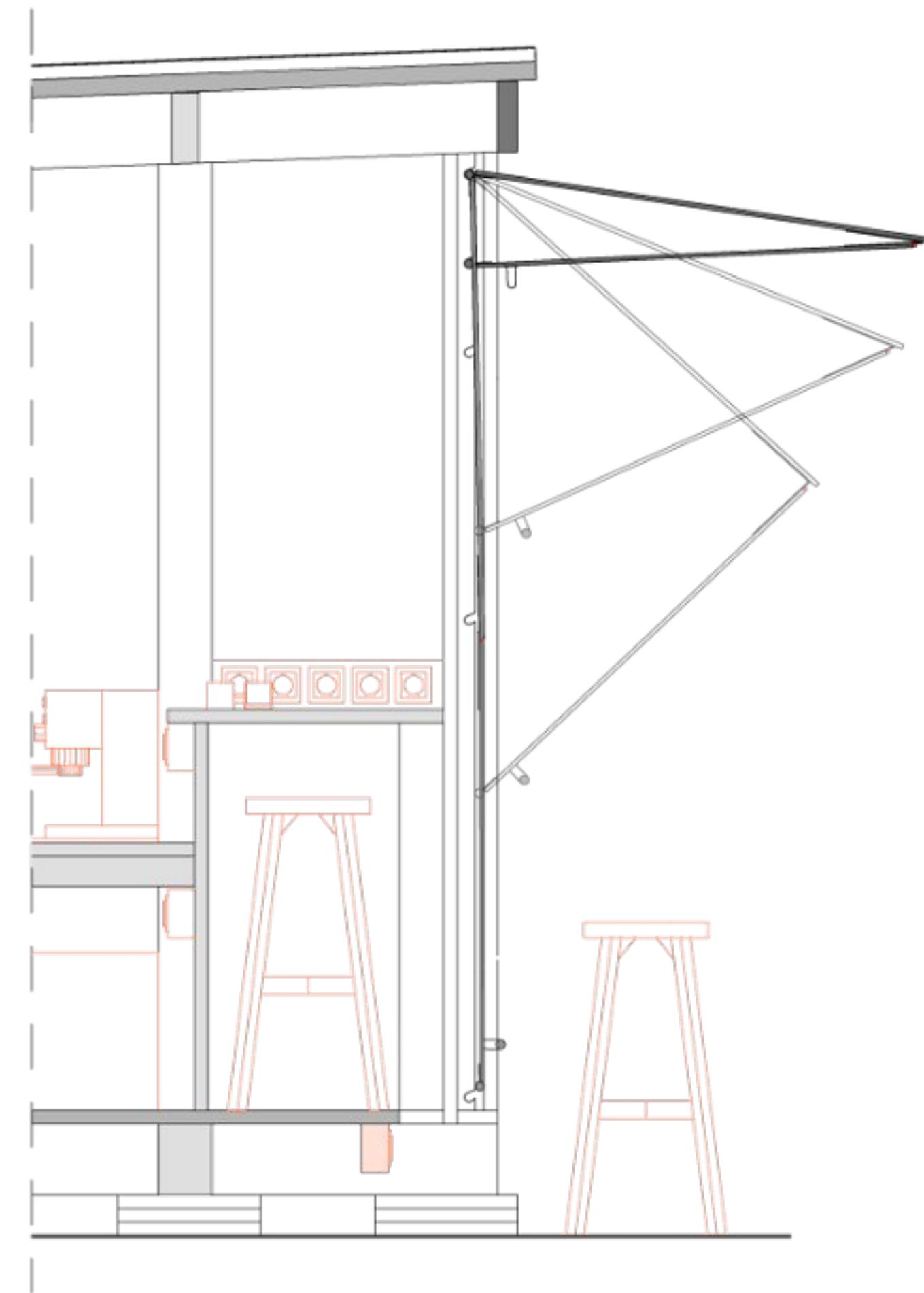
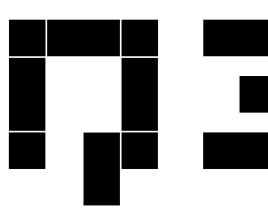
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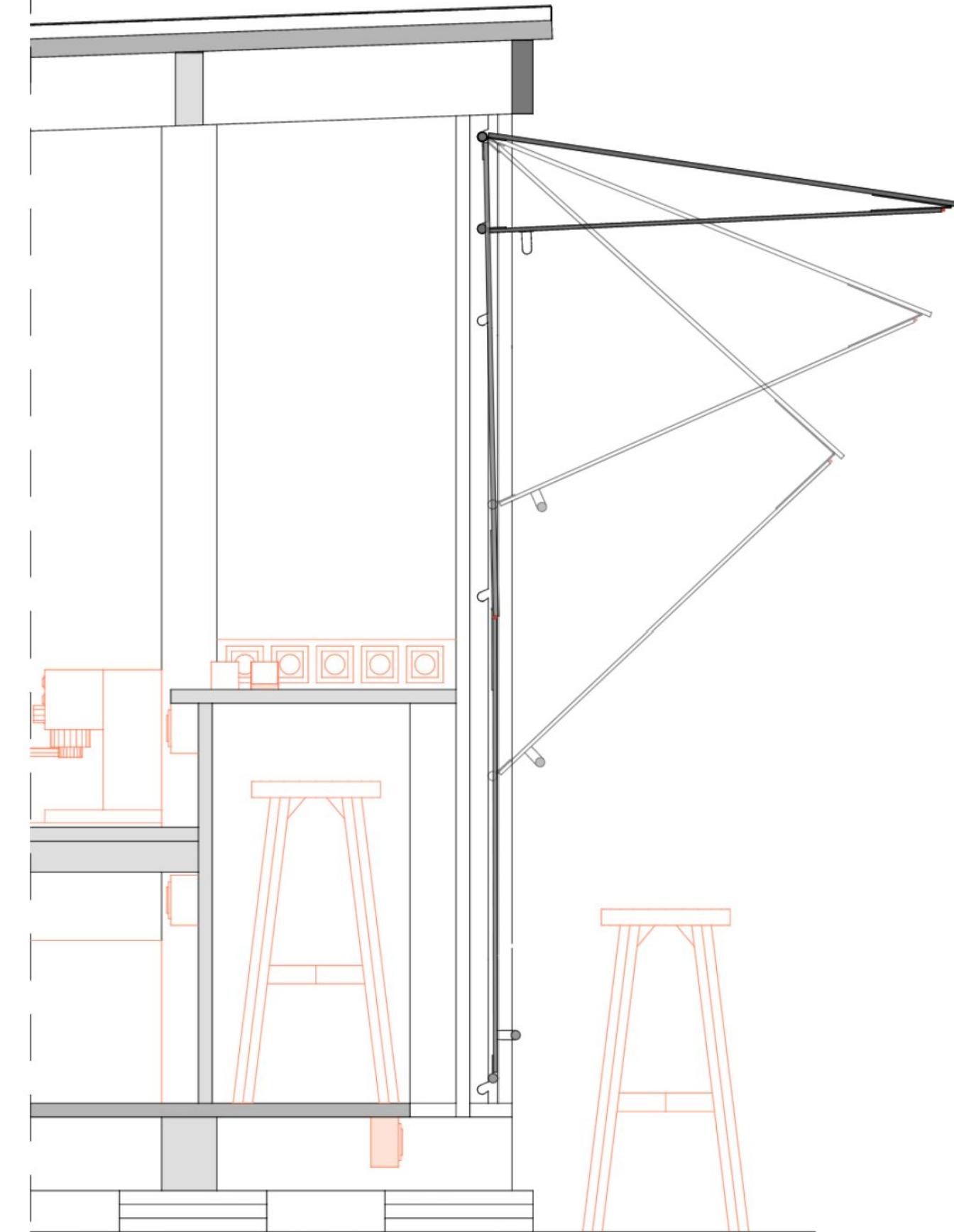
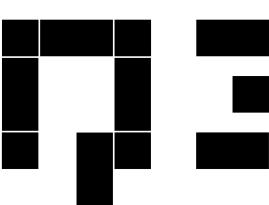
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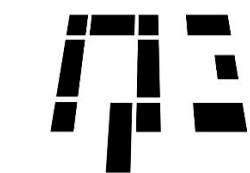
# DETAIL



DETAIL



**ICH BIN EIN  
CAFÉ**



**TECH  
TECH**

**NIK**

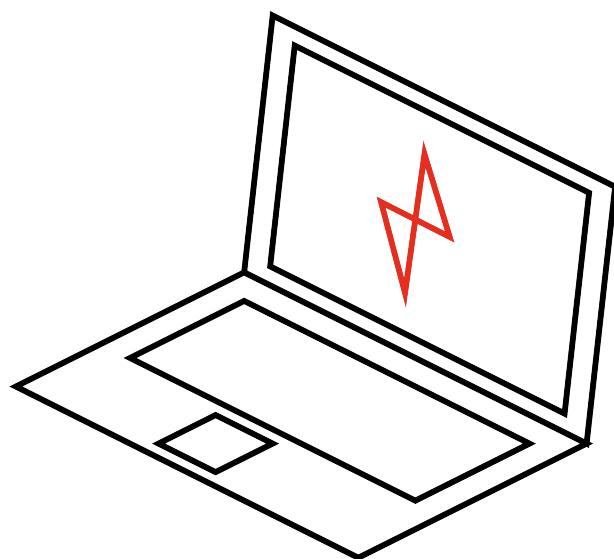
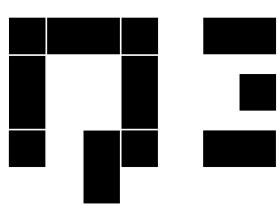
**LASS DICH  
NICHT STÖREN**

# Energiekonzept

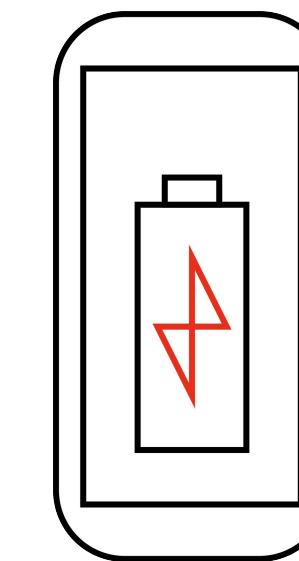


Freitag, 23. März 2024 13:00

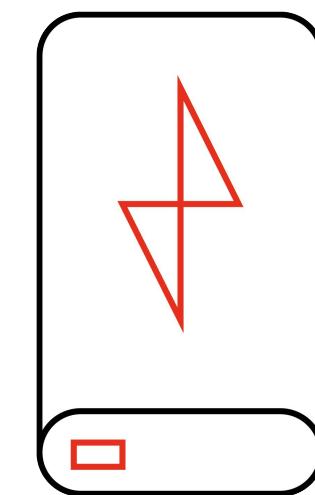
# ENERGIEKONZEPT I notwendige Verbraucher Funktionsmodul



45 W

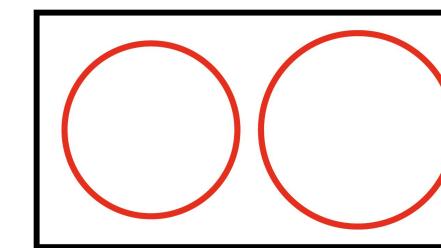
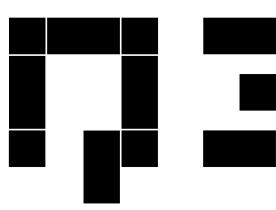


3 W

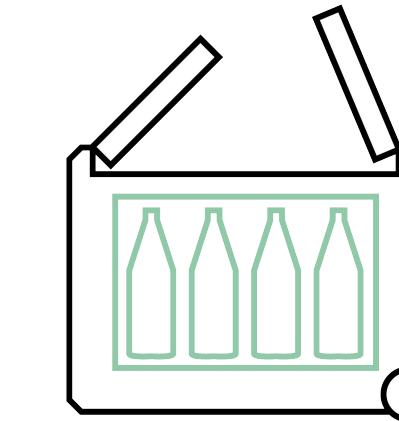


10 W

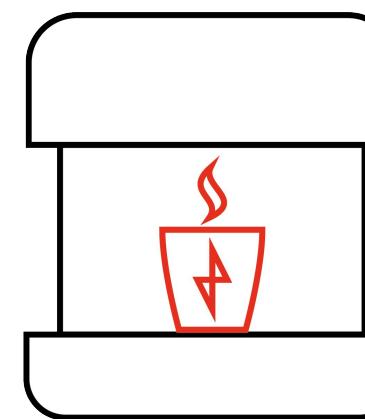
# ENERGIEKONZEPT I notwendige Verbraucher Café



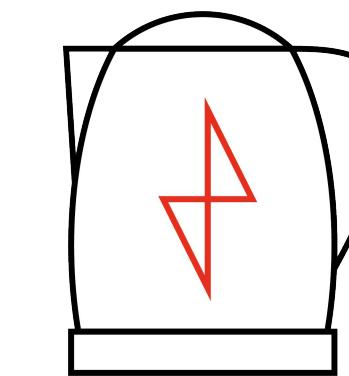
2000 W



48 W

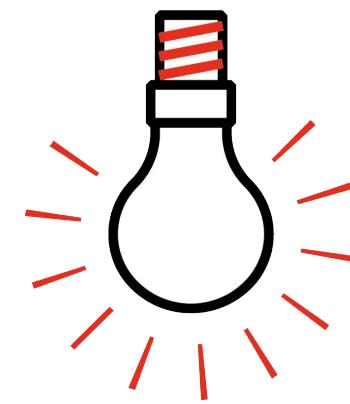
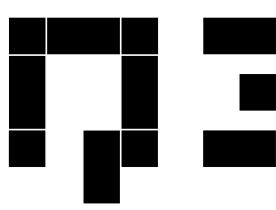


2000 W

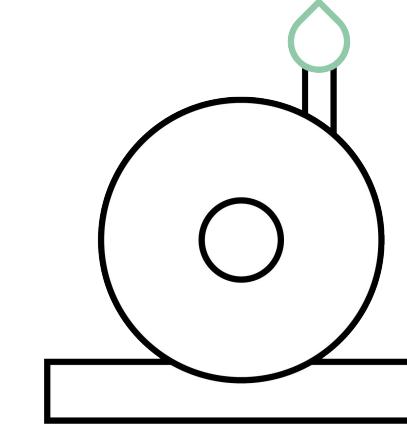


48 W

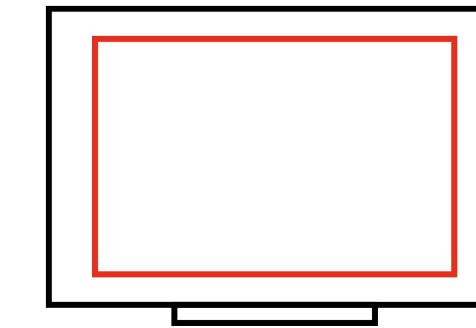
# ENERGIEKONZEPT I sonstige elektrische Verbraucher



10 W/m

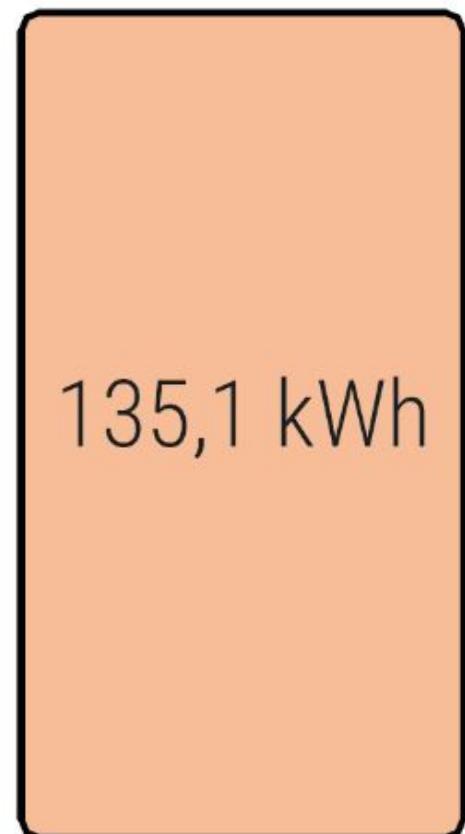
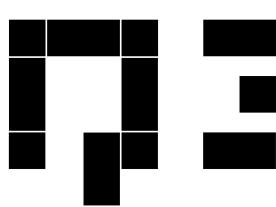


550 W

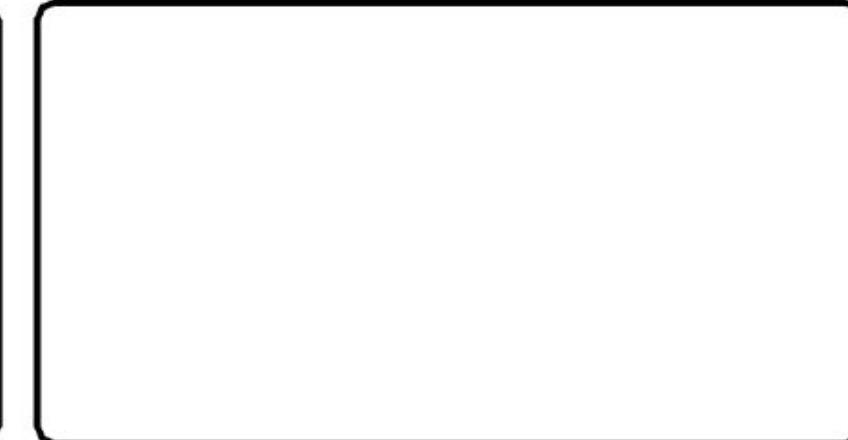
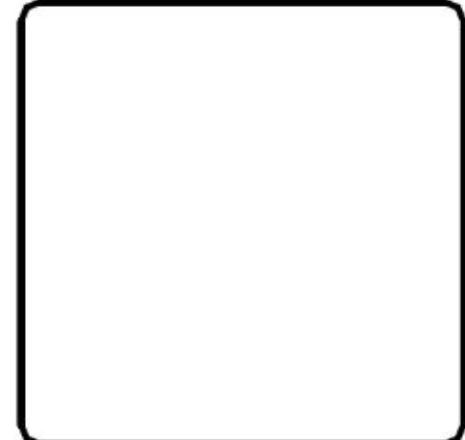


30 W

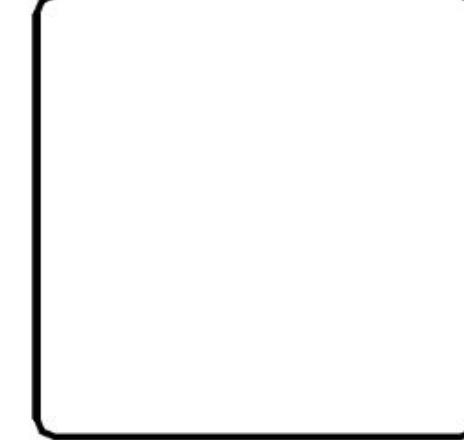
# ENERGIEKONZEPT I Aufschlüsselung Verbräuche



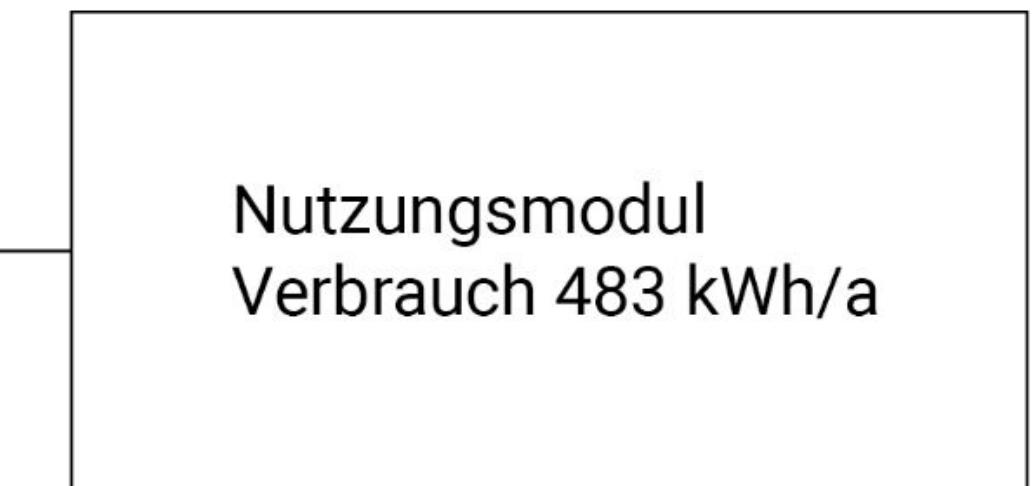
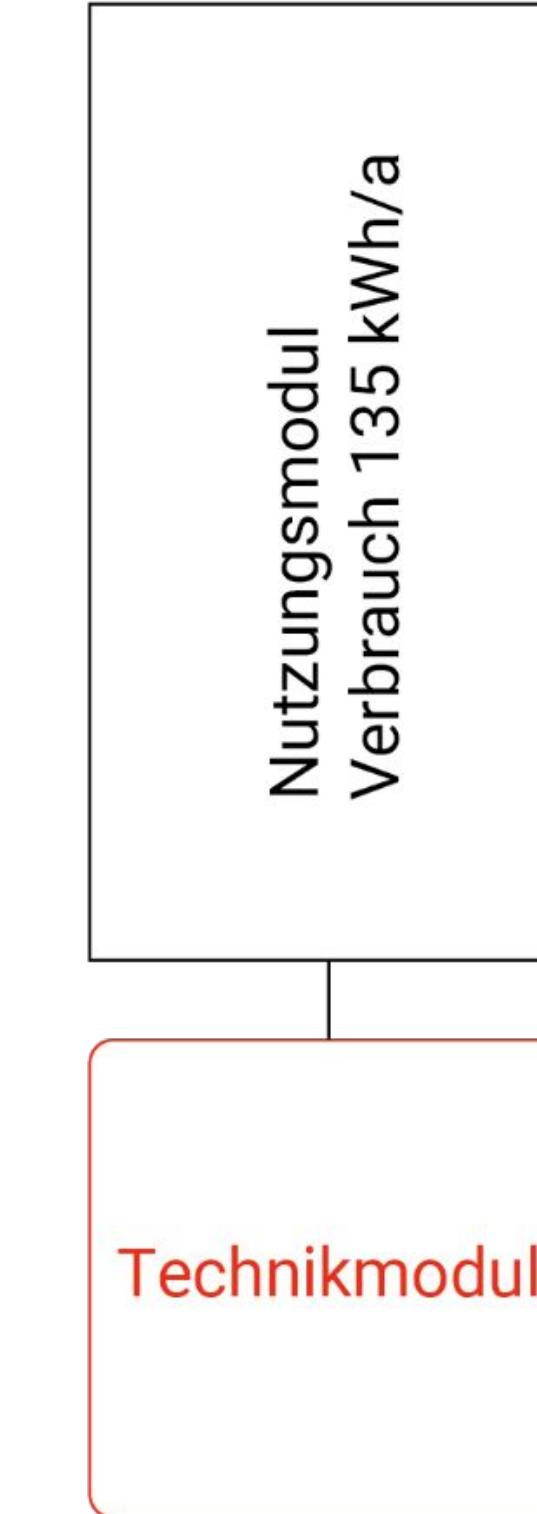
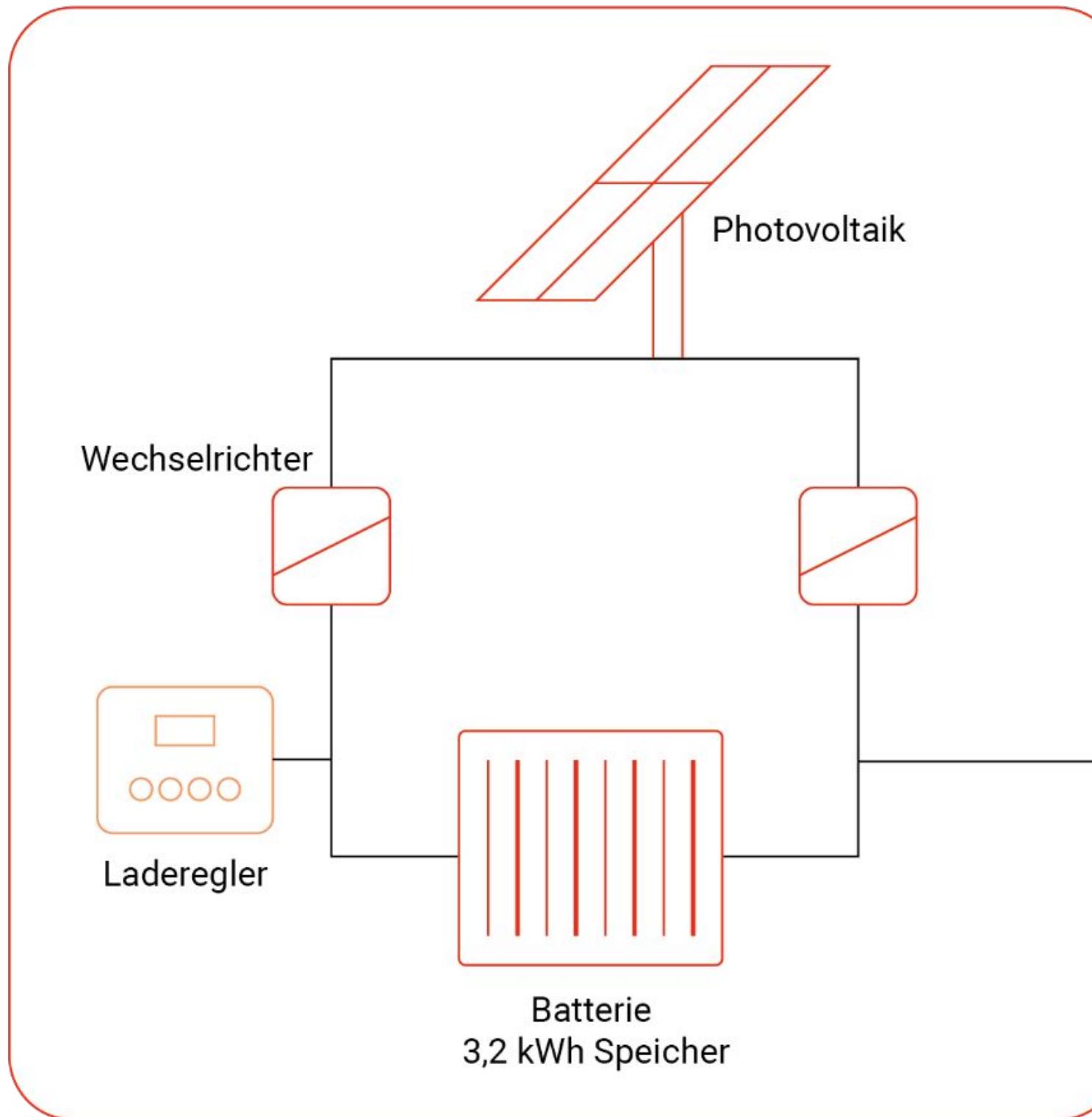
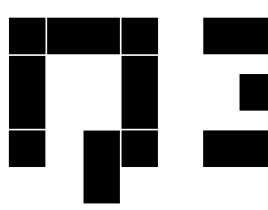
4 Laptops 2 h  
4 Smartphones 1 h  
2 Powerbanks 1 h  
10 m LEDs 6 h



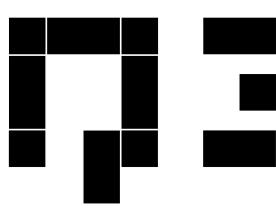
1 Kaffeemaschine 3 h  
1 Wasserkocher 1 h  
1 Kochfeld 1 h  
3 Kühlboxen 4 h  
1 Wasserpumpe 1 h



# ENERGIEKONZEPT I Elemente



# ENERGIEKONZEPT I Visualisierung





Freitag, 29. März 2024 13:47

Außentemperatur: 12 °C



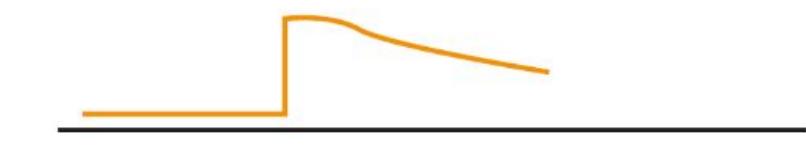
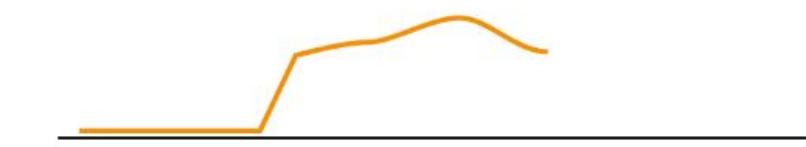
heute



Sa

So

Aktueller Strombedarf: 1520 W



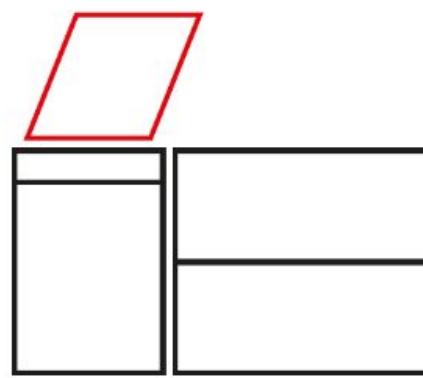
Aktueller Stromertrag: 1373 W



Stand Wasserspeicher: 23/60 l

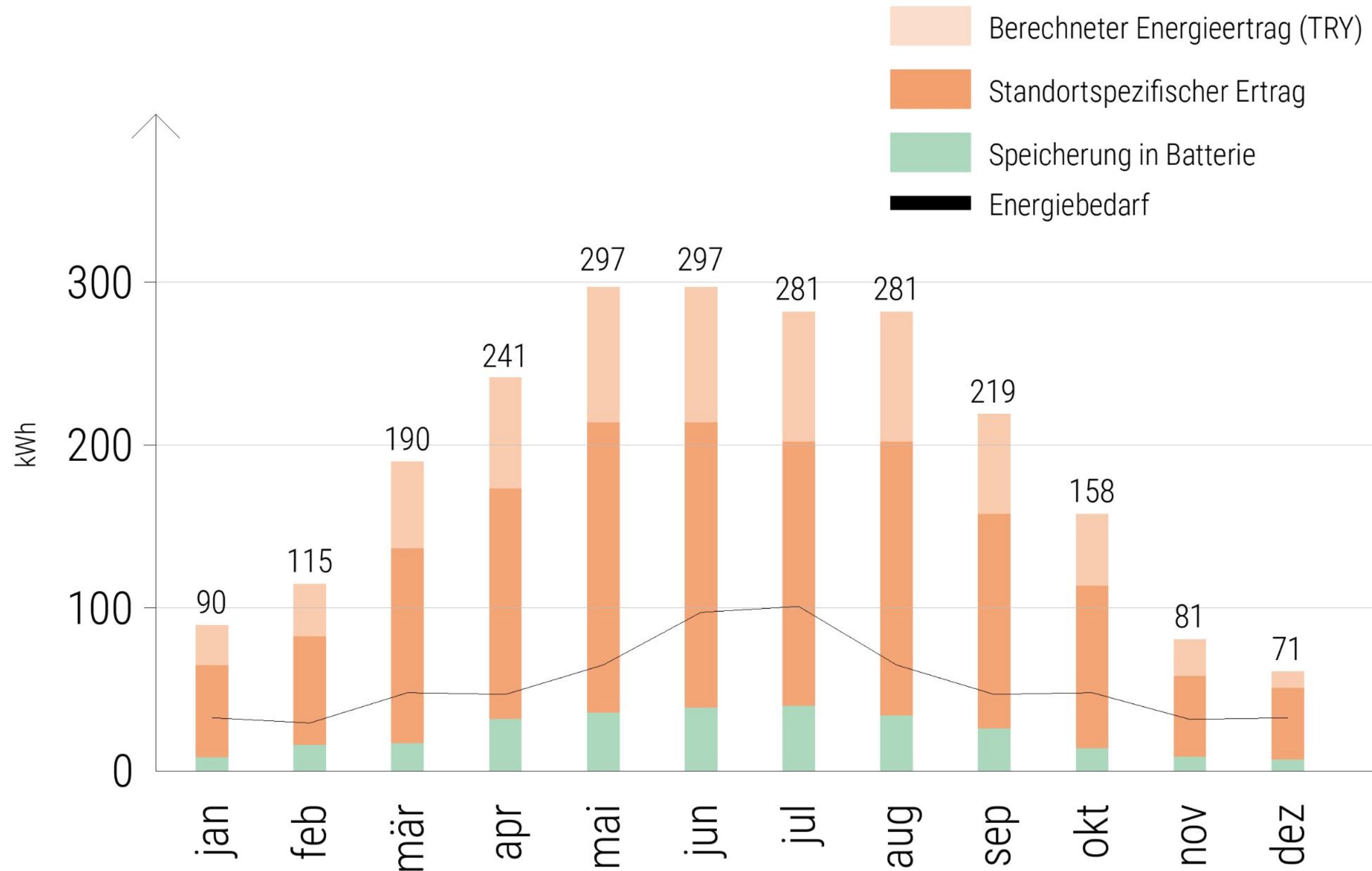
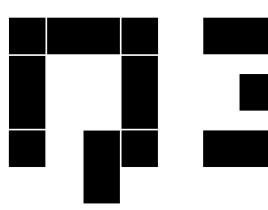


Temperatur Wasser: 8 °C

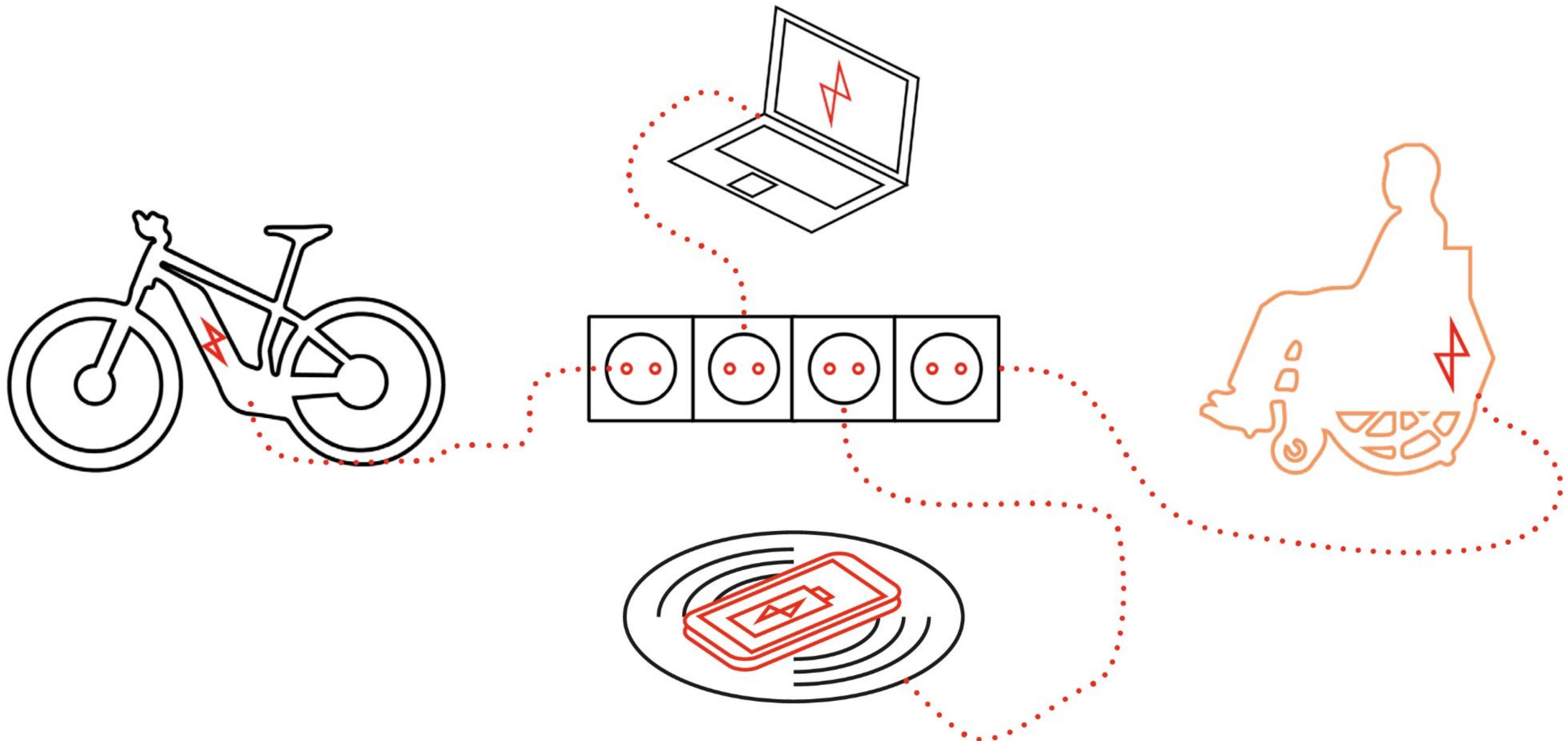
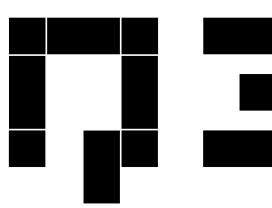


Kaffee heute verkauft: 22

# ENERGIEKONZEPT I Nutzenergiebedarf

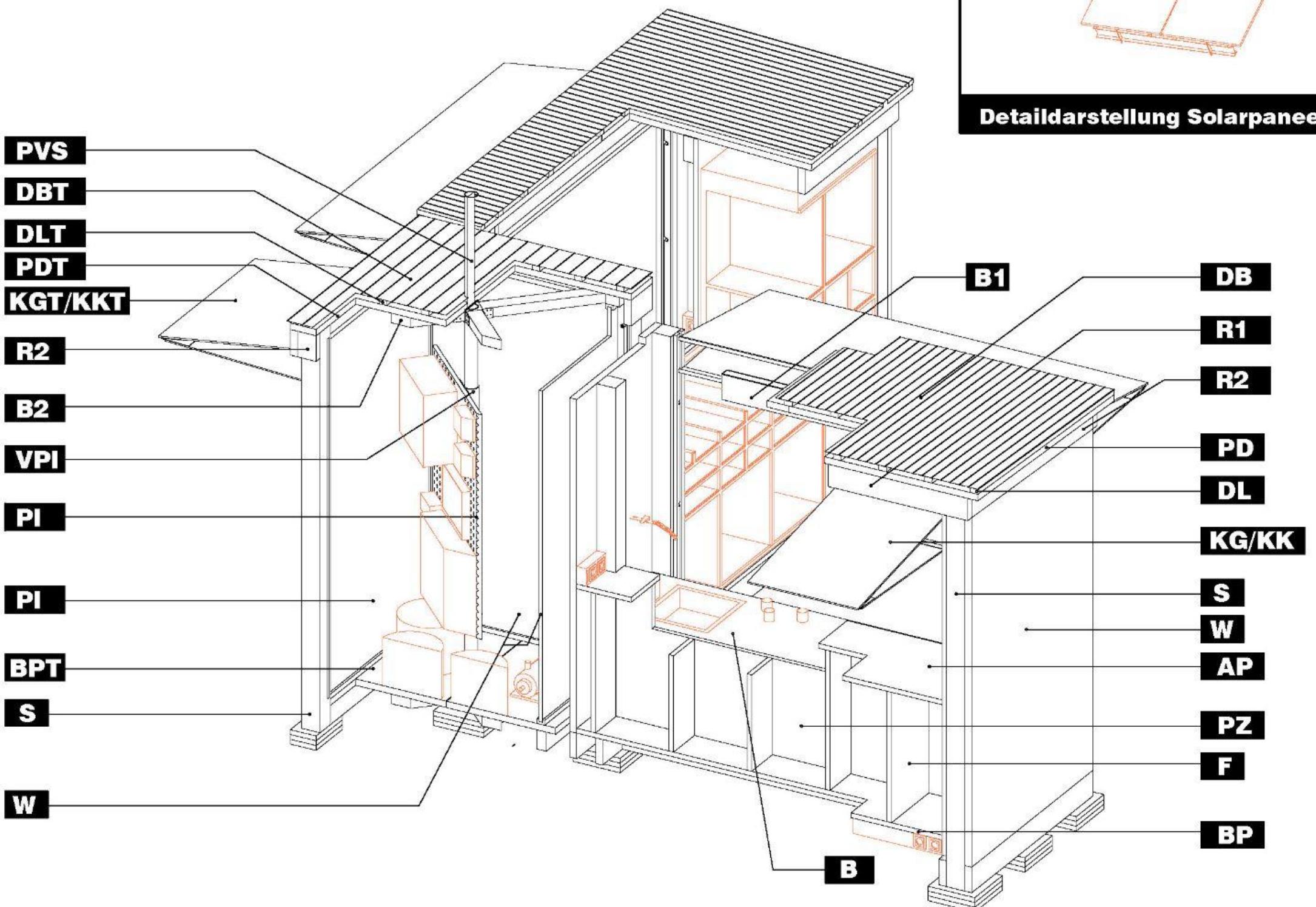


# ENERGIEKONZEPT I potentielle Verbraucher



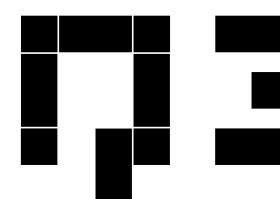


Kosten



**Detaildarstellung Solarpaneel und Montagesystem M 1:50**

## Nutzungsmodul - Bar/Café

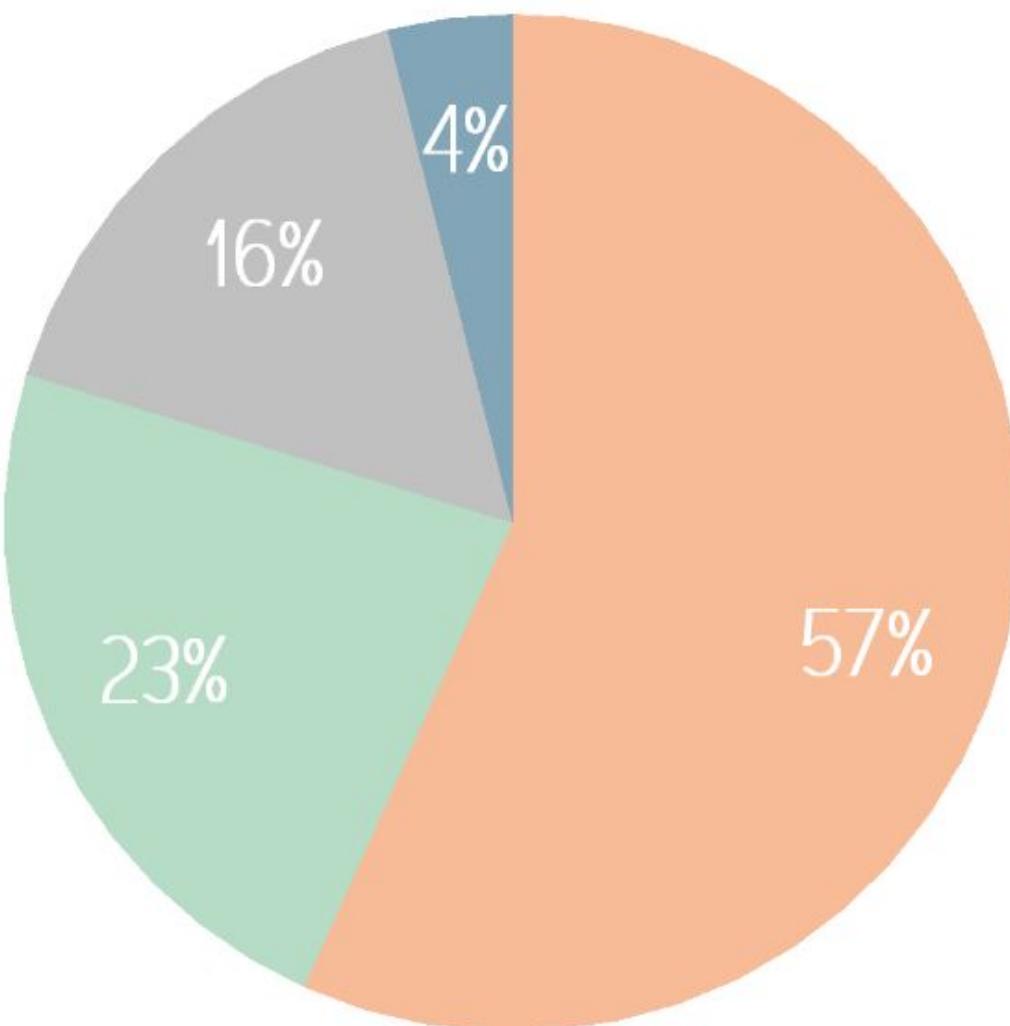
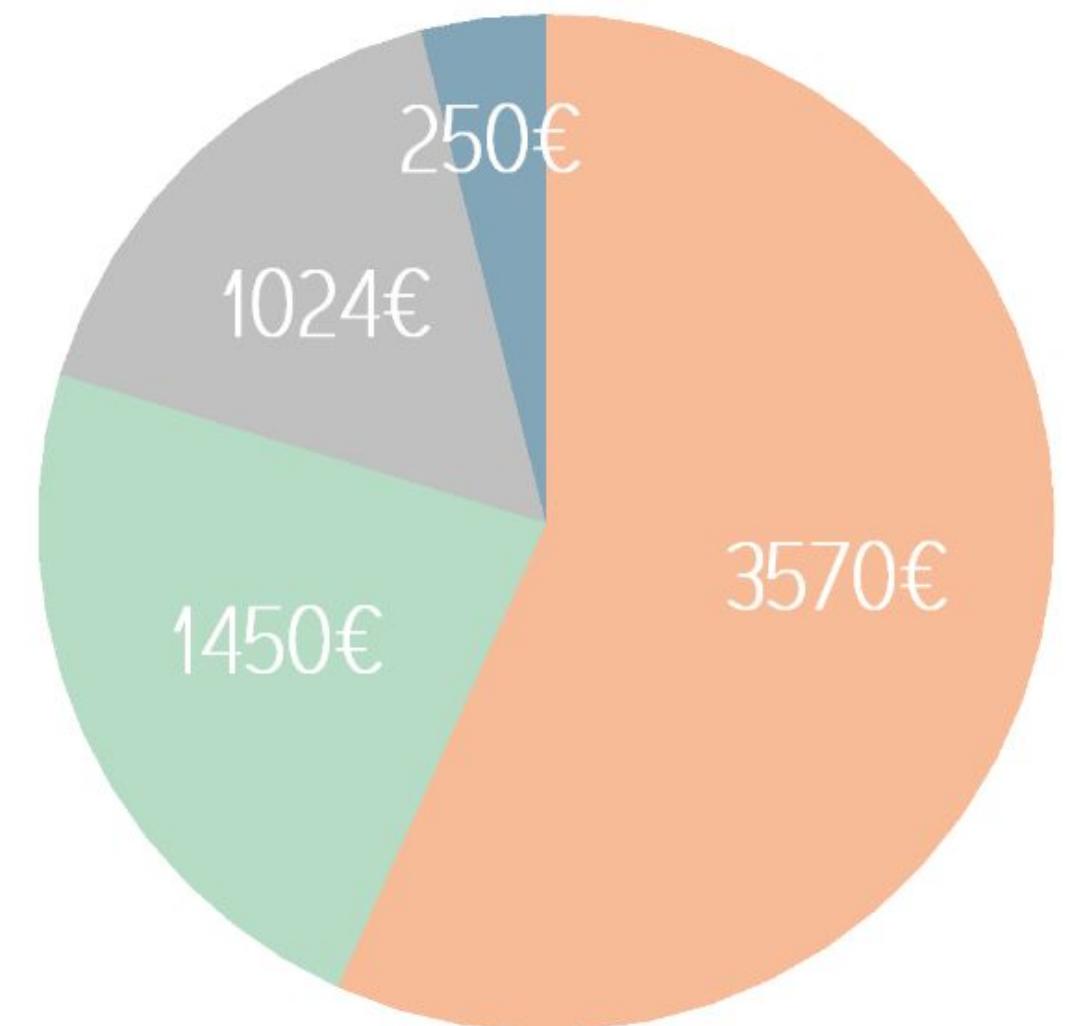
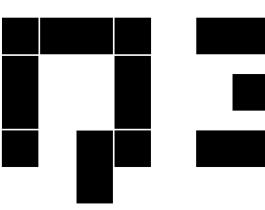


Bezeichnung	Kennzeichen	Preis pro Einheit in EUR	Einheiten pro Stück	Preis insgesamt in EUR
Stütze	S	13,54	2,50	203,10
Balken Nutzung	B1	9,02	2,38	42,94
Rahmen lang	R1	13,10	2,80	146,72
Rahmen kurz	R2	13,10	1,40	146,72
Wände	W	553,49		1.106,98
Klapplatte größer	KG	553,49		1.106,98
Klapplatte kleiner	KK	553,49		1.106,98
Dachlatte	DL	0,84		3,78
Stehfalzblech	DB	27,26	4,57	124,47
Platte zentral	PZ	275,39		275,39
Platte Dach	PD	11,95	4,55	54,38
Arbeitsplatte	AP	275,39		137,70
Bar	B	275,39		137,70
Fächer	F	275,39		1.101,56
Bodenplatte	BP	64,66	2,00	129,32
<b>AUSSTATTUNG</b>				
Spüle	SPÜ	79,00		79,00
Wasserkanister	WKa	14,99		89,94
Kaffemaschine	KM	380,53		380,53
Wasserkocher	WKO	31,99		31,99
Kochfeld	KF	38,99		38,99
LEDs	LED	0,06	5,75	57,50
LED Schiene	LED Sch	0,04	3,99	39,90
Steckdosen	SD	6,99		153,78
Thoska-Lesegerät	TL	20,00		40,00
<b>GESAMTKOSTEN</b>				
<b>6.736,34</b>				

## Nutzungsmodul - Funktionsmodul

Bezeichnung	Kennzeichen	Preis pro Einheit in EUR	Einheiten pro Stück	Preis insgesamt in EUR
Stütze	S	13,54	2,50	203,10
Balken Nutzung	B1	9,02	2,38	42,94
Rahmen lang	R1	13,10	2,80	146,72
Rahmen kurz	R2	13,10	1,40	146,72
Wände	W	553,49		1.106,98
Platte Zentral	PZ	275,39		275,39
Klappelement größer	KG	553,49		1.106,98
Klappelement kleiner	KK	553,49		1.106,98
Dachlatte	DL	0,84		3,78
Stehfalzblech	DB	27,26	4,57	124,47
Platte Dach	PD	11,95	4,55	54,38
Bodenplatte	BP	64,66		64,66
Schreibtisch	ST	64,66	2,00	129,32
<b>AUSSTATTUNG</b>				
Schließfächer	SF	608,00	-	608,00
Steckdosen	SD	6,99		181,74
Thoska-Lesegerät	TL	20,00		40,00
<b>GESAMTKOSTEN</b>				<b>5.342,16</b>

# KOSTEN | Anlagenkosten



- █ Batterie
- █ PV-Anlage
- █ Wechselrichter
- █ Laderegler

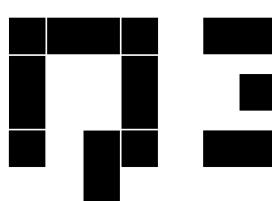
## Technikmodul

Bezeichnung	Kennzeichen	Preis pro Einheit in EUR	Einheiten pro Stück	Preis insgesamt in EUR
Stütze	S	13,54	2,50	135,40
Balken Tech	B2	5,64	0,72	32,49
Rahmen kurz	R2	13,10	1,40	146,72
Wände	W	553,49		1.106,98
Plexiglas	Pl	97,50	1,93	188,10
Plexiglas Tür	PlTü	97,50	2,53	246,68
Klappelement größer Tech	KGT	553,49		1.106,98
Klappelement kleiner Tech	KKT	553,49		1.106,98
Dachlatte Tech	DLT	0,84		3,78
Stehfalzblech Tech	DBT	29,00		29,00
Platte Dach Tech	PDT	11,95	2,22	26,53
Platine	Pl			
Verbinder Platine	VPI			
PV-Stütze	PVS			
Bodenplatte Tech	BPT	64,66		64,66
<b>AUSSTATTUNG</b>				
PV-Anlage	PV	362,50		1.450,00
Wechselrichter	WR	1.024,00		1.024,00
Laderegler	LR	64,99		64,99
Batterie	B	3.569,00		3.569,00
Wasserpumpe	WP	67,00		67,00
Monitor	Mo	299,00		299,00
PC	PC	182,49		182,49
Thoska-Lesegerät	TL	20,00		20,00
Steckdosen	SD	6,99		125,82
<b>GESAMTKOSTEN</b>				
<b>10.996,59</b>				



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