

COMPLEX PROJECTS THE TEMPLE OF MUSIC

Graduation presentation Job Vogel november/07/2024

1st mentor:

Jelmer van Zalingen

2nd mentor:

Edyta Milczarek

3rd mentor:

Rico Heykant



Complex Projects (

Architecture MSc 3 & 4

Tu Delft

INTRODUCTION
CONCEPT
IMPLEMENTATION
CONCLUSION



INTRODUCTION CONCEPT IMPLEMENTATION CONCLUSION

9 BUILDING TYPES



















OPERA











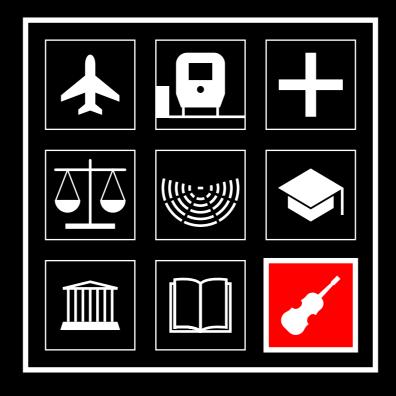








introduction MATERIAL GROUP







4 OPERA HOUSES



Staatsoper Unter der Linden



Deutsche Oper Berlin



Komische Oper Berlin



Neuköllner Oper



4 OPERA HOUSES



Staatsoper Unter der Linden



Deutsche Oper Berlin







Komische Oper Berlin





Neuköllner Oper





introduction WHAT IS OPERA

THEATRE + ORCHESTRA² = OPERA

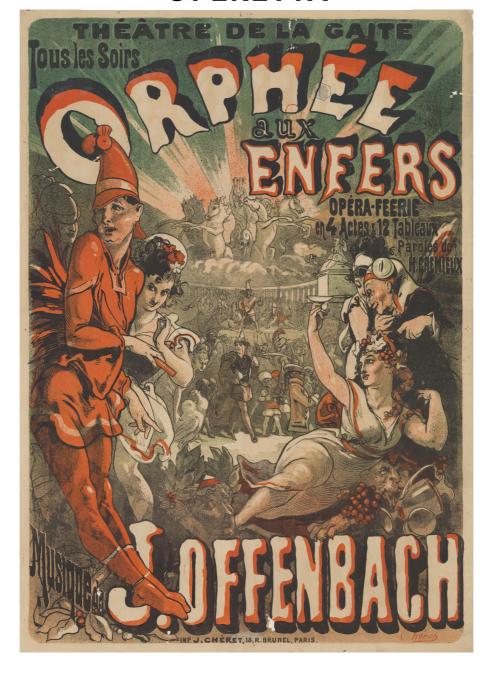


introduction WHAT IS OPERA

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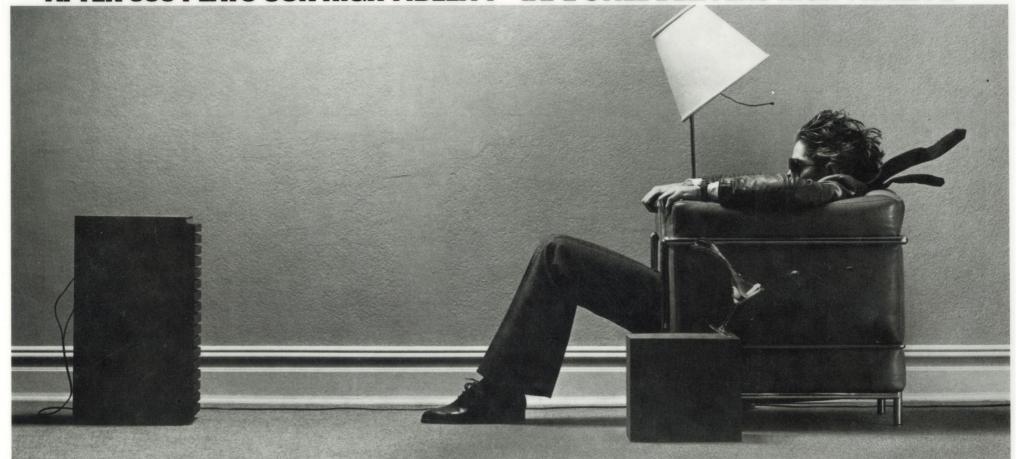


OPERETTA



SPREAD

AFTER 500 PLAYS OUR HIGH FIDELITY TAPE STILL DELIVERS HIGH FIDELITY.



If your old favorites don't sound as good as they used to, the

If your old favorites don't sound as good as they used to, the problem could be your recording tape.

Some tapes show their age more than others. And when a tape ages prematurely, the music on it does too.

What can happen is, the oxide particles that are bound onto tape loosen and fall off, taking some of your music with them.

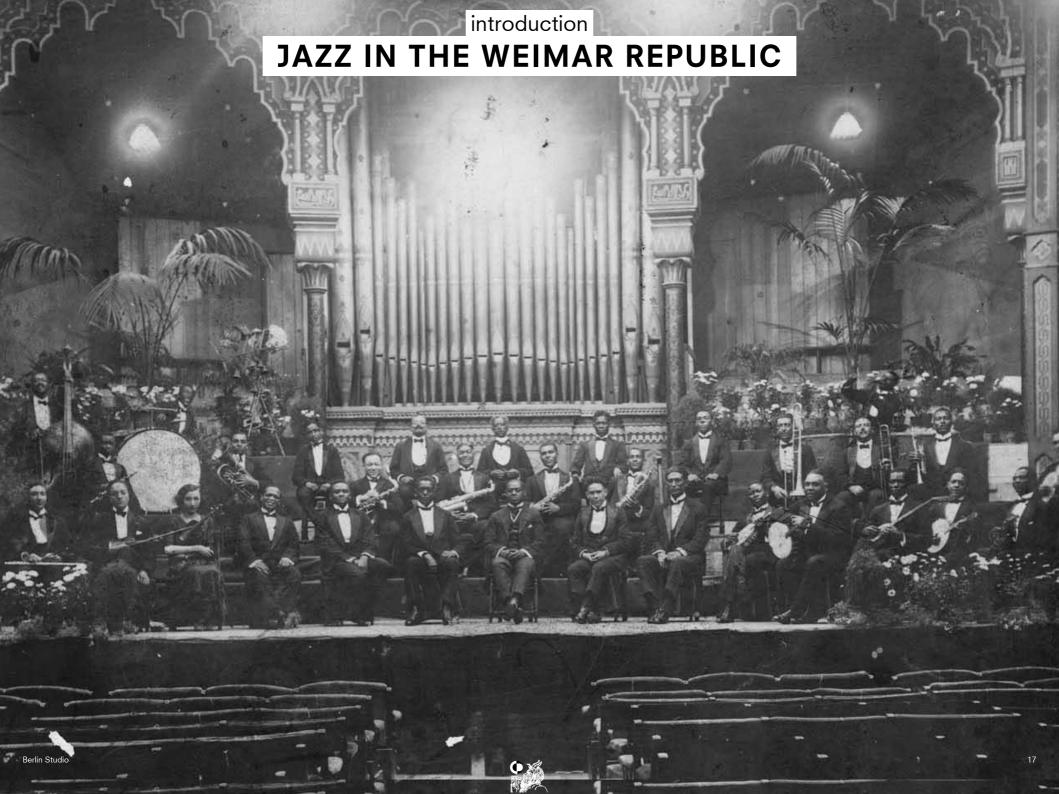
At Maxell, we've developed a binding process that helps to prevent this. When oxide particles are bound onto our tape, they are the order to prevent the statement and the order to the process.

they stay put. And so does your music.
So even after a Maxell recording is 500 plays old, you'll

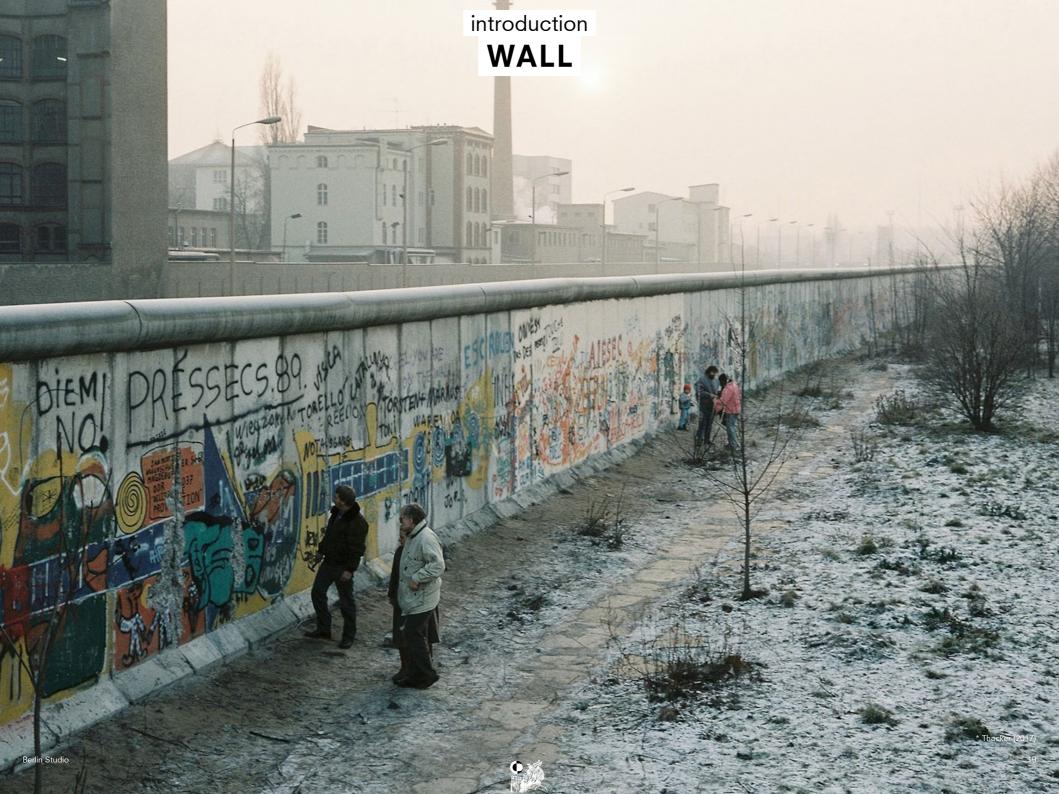
swear it's not a play over five.



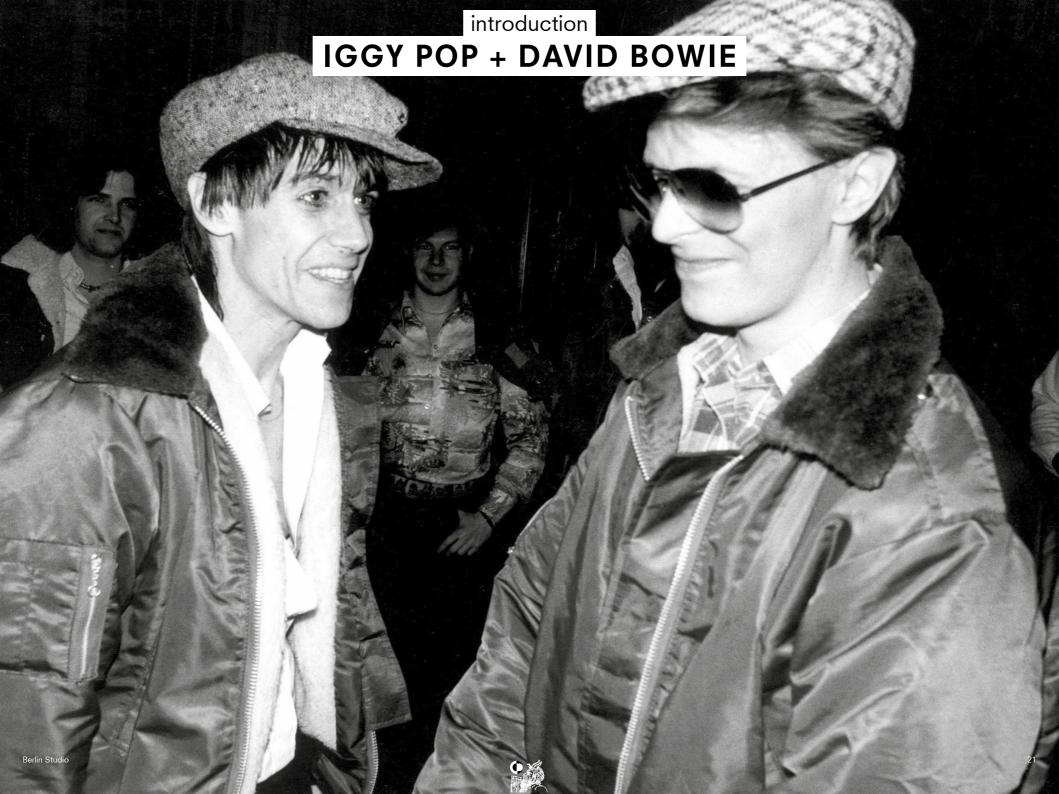


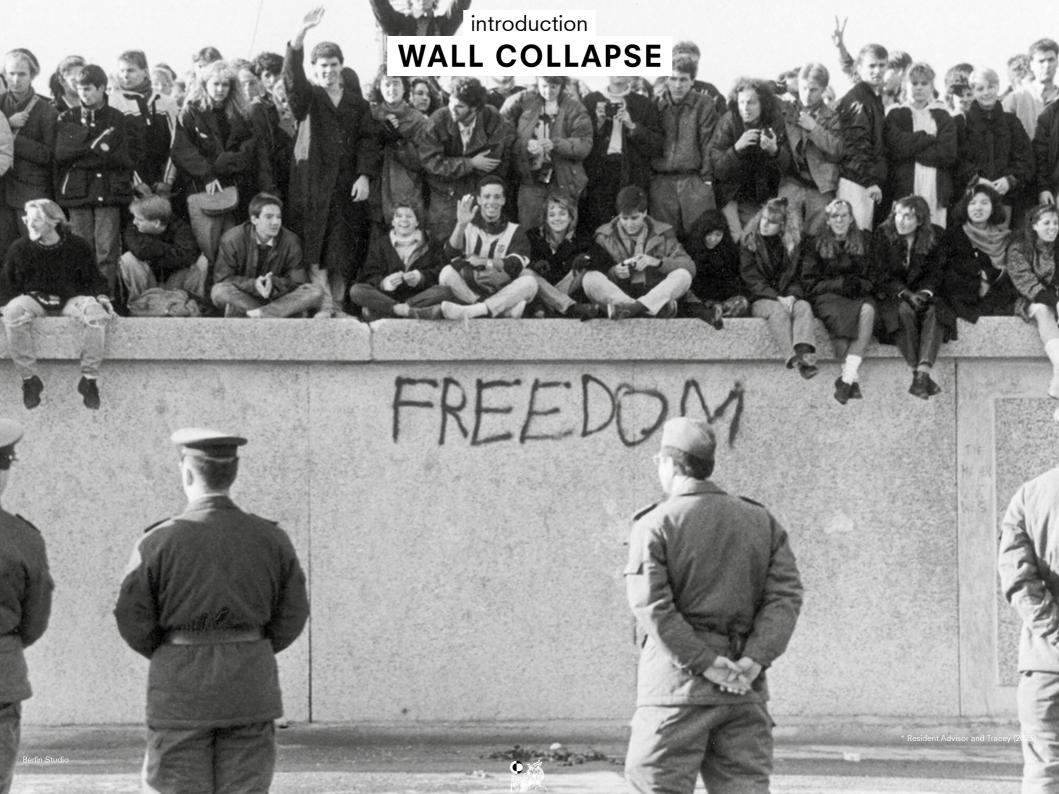




















CURRENT BERLIN

vibrant nightlife

















BERLIN IS IN DANGER

(LeJarde 2023

Berlin club Re:mise announces closing parties

Between November 16th and 20th, the venue will host Stella Zekri, Esther Dune and many more.

Arielle Lana LeJarde, 5 november 2023

Remise in Berlin has revealed its final events

Scaturro 2020

With the closure of another club space, the scene that revived Berlin is being lost

The dance community helped reunify East and West Germany in the 1990s, but gentrification is slowly killing it

Michael Scaturro, 15 march 2020

I was in bed when my friend Alfonso called me. "It's the last party at Griessmuehle," he said. "It's

Popular Berlin nightclubs face "extreme" threat from controversial motorway expansion, say Clubcommission

The planned 17th stage of the A100 motorway would impact iconic venues such as ://about blank, Club OST, and Wilde Renate

Gemma Ross, 16 may 2023

A number of popular Berlin nightclubs could face closure if a proposed new motorway extension were to be given the green light, as the Bundesautobahn 100 looks to run through nightlife areas in Mitte, Charlottenburg. Tempelhof and Neukollin.

The Bundesautobahn 100 (also known as the A100) is currently in its 16th stage of construction, which has been underway since 2013 and is due to cost around €700 million when finalised, and looks to increase its "rine" around the city.

The nearing 17th stage, which will cost the city an estimated further 6800 million, could wipe out 21 cultural institutions if it were to run through Storkower Strasse in Ostkreuz, according to Berlin's Cultonomicsion

Local politicians have given no concrete statement over whether the development will go ahead, despite plans for the 17th stage having been proposed as far back as 1935, reportedly leaving local institutions in "limbo" — unable to secure guaranteed planning permission from the city and at risk of surging rent were the plans to be scrapped.

The extension has become a contentious issue among both local and national politicians; the left-leaning Alliance90 (or "The Greense") and the SPD oppose the expansion, while centre and right-leaning parties such as the CDU, FDP and ATD are supportive of the 17th stage.

Nightlife venues that stand to be impacted if the plans were to go ahead are ://about blank, Club OST, Salon Zur Wilden Renate, ELSE, OXI, and newly opened venue Club M01 — while local bar Zuckerzauber, skatepark E-LOK, independent cinema Zukunft, and cocktail bar Krass Böser Wolf could also face closure

"In total, there are about 21 cultural venues that are in the area of this continuous autobahn construction, which is extremely threatening," Lutz Leichsenring of Berlin's Clubcommission tells Mixmae.

"On the other hand, if they do decide not to build the autobahn, there is also a threat because the real estate value will rise and landlords might aim for more profitable real estate, such as residential or office buildings. So in any case, if they build it or not, we need to have a plan or vision for this area."

Leichsenring explains that another property across the Spree River is also intertwined with the

(Schmitz 2023

Berlin's famed nightclubs, losing customers, face an uncertain future

Rob Schmitz, 3 november 2023

BERLIN — For those who haven't experienced it, a night at a club in Berlin can be reduced to a math equation whose first variable is the best club voit've been to

"Berlin nightlife is, let's say, what you've experienced, multiply that by 10," says Zak Khutoretsky, otherwise known by his DJ pseudonym, DVS1.

(Braun 2023

Berlin club culture battles 'highway to hell'

The extension of the A100 freeway through central Berlin would destroy numerous nightlife institutions. But the club scene has joined with climate activists to halt its construction.

Stuart Braun, 9 september 2023

Griessmuehle: Berlin mourns the loss of yet another club

Ahead of the venue's final party this weekend, protesters, organisers, and activists reflect on its legacy and the future of the city's nightlife

Brit Dawson, 31 january 2020

(Skinner 202)

(Dawson 2020)

Berlin's iconic Berghain club rumoured to be closing down

The techno venue was founded in 2004

Tom Skinner, 18 october 2022

Berlin's Berghain nightclub is rumoured to be permanently closing by the end of this year

The legendary establishment, which was founded in 2004, is one of the most famous clubs

(Moen 202

Protesters and Politicians Rally to Protect Berlin's Clubs

Nightclubs have a unique role in the city's culture and economy. But real estate investors and infrastructure projects have put many venues at risk.

Thomas Rogers, 24 january 2020

BERLIN — On Wednesday afternoon, about 300 protesters gathered in front of a municipal building in the southeast of Berlin, dancing and holding signs. "All clubs are beautiful," one placard said, "The day I stop dancing is the day I stop breathing." read another.

Accompanied by loud techno music, they had come to protest the impending closure of Griessmuehle, a well-known nightclub. As has happened to numerous Berlin venues in recent years, the club is being evicted because new owners plan to redevelop the site.

Several politicians addressed the crowd, including Martin Hikel, the mayor of the Neukölln district, where the protest took place. "There is a consensus among parties that club culture should be protected," he told the demonstrators, adding that there was "the political will" to take action on the issue.

Berlin is known for its freewheeling club scene, but in the last decade, that culture has come under increasing pressure from real estate investors and infrastructure projects. The situation is complicated by an acute housing shortage, and the city's dramatic economic growth. In recent years, many formerly abandoned spaces have been redeveloped as offices and apartments, and real estate prices have soared.

According to the Club Commission, a group dedicated to promoting and protecting Berlin's night life, about 100 clubs have closed over the past decade, and about 25 venues are currently under threat. There's even a German word for it, "clubsterben," or "club dying," that has entered the maintream levien.

A growing number of politicians from across the political spectrum have taken up the cause, partly to protect the venues' unique role in the city's cultural fabric, but also because the clubs are moneymakers for the broader economy. According to a study by the Club Commission, tourists visiting Berlin for its club scene contributed 1.5 billion euros, or about \$1.66 billion, to the capital's economy in 2018. The clubs have also played a large role in attracting young workers for the city's start-up scene, which many politicians see as crucial to Berlin's economic growth.

In an interview, Lutz Leichsenring, a spokesman for the Club Commission, said, "It's easier to attract start-ups to Berlin than to Munich and Hamburg. And that's not because we have better shopping ontions."

In recent years, as gentrification has driven a rise in disputes between venues and residents, and led to many closures, other major cities have started initiatives to protect club culture. Amsterdam,

Berghain Might Be Closing for Good

Word on the street is that Berlin's infamous nightclub Berghain might be closing its doors for good by the end of this year.

Matt Moen, 18 october 2022

Speculation that the legendary nightlife institution might be shuttering at some point in the near future has been ricutaliting since the club's in-house record label and booking agency, Osquit Ton, abruptly closed earlier this month. According to several insides ources, the "world capital of techno" is set to close permanently by the end of 2022 almost two full decades after it first opened its close in 2012.

"The Berghain is closing forever – the final end will come this year," one source said to Faze Magazine. "One of the founders has already been paid out and is said to be staying in the countryside in Brandenburg," another source told the German outlet. "The others simply 'don't feel like it' anymore and have other life plans in mind."

Apparently once the venue's current owners wash their hands of the place, there aren't any future plans for someone else to take over. "Continuing to exist as an art location does not appear to be an option. And so this chapter should finally be closed."

So far Berghain's current owners have yet to comment or release an official statement addressing the speculation. Berghain previously closed its doors in March 2020 during the onset of the COVID-19 pandemic, operating as an art gallery while nightlife worldwide ground to a halt.

Before that, Berghain had been best known as one of the world's most exclusive club with a notoriously selective bouncer — who gained his own form of cult-like figure status in the process — that made getting let in a badge of pride for those select few (as Claire Danes once famously gushed about on Ellen back in the day).



Berlin Studio

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(Bryant 2024)

january 2020

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Berlin's Famous Club Scene Faces the End of the Party

The closing of renowned clubs Watergate and Renate spells trouble for the city's nightlife.

Chris Bryant, 27 September 2024



Berlin is synonymous with unbridled hedonism, throbbing techno and intense parties that go on for days. But the fun will soon be over for two of the capital's most famous venues — Watergate and Wilde Renate — which are set to permanently close, in part due to rising costs.

Enterprising club promoters have long defied predictions of the techno scene's imminent demise—there's even a German word for it, "Clubsterben," or club death. But Berlin shouldn't ignore the plight of an industry that contributes around £1.5 billion (\$1.7 billion) annually to the local economy, is a magnet for young tourists, startups and creative types, and whose cultural significance was recently recognized by Unesco.

"I always thought Clubsterben was bullshit — clubs just adapted and moved to a new area — but it feels different this time. Watergate and Renate are big names," Jens Schwan, founder of Berlin music guide The Clubmap and co-founder of techno parade Zug der Liebe, told me. "The boom years are over. And after corona, many club misses the opportunity to reinvent themselves." The Party's Over

Berlin Studio





introduction RESEARCH QUESTION

"Do modern nightclubs have structural and social similarities with old-fashioned opera houses?"

ANSWER









Deutsche Oper Berlin





Komische Oper Berlin





Neuköllner Oper

A MUSICAL ARTS CENTRE!



THE TEMPLE OF MUSIC



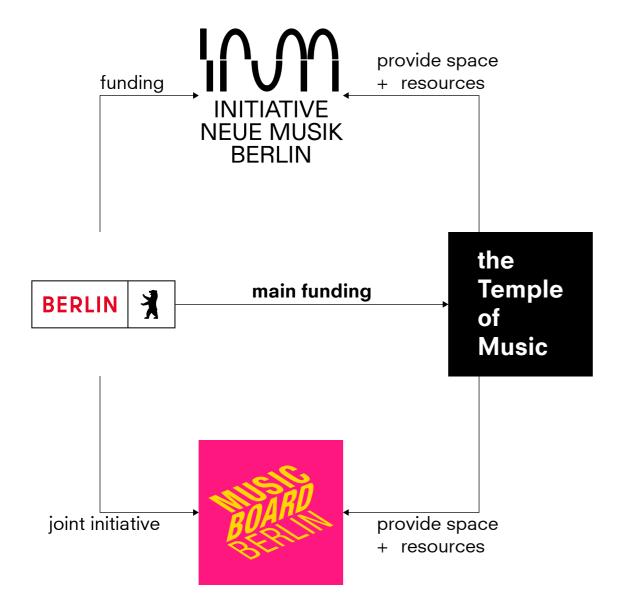
INTRODUCTION

CONCEPT

IMPLEMENTATION CONCLUSION

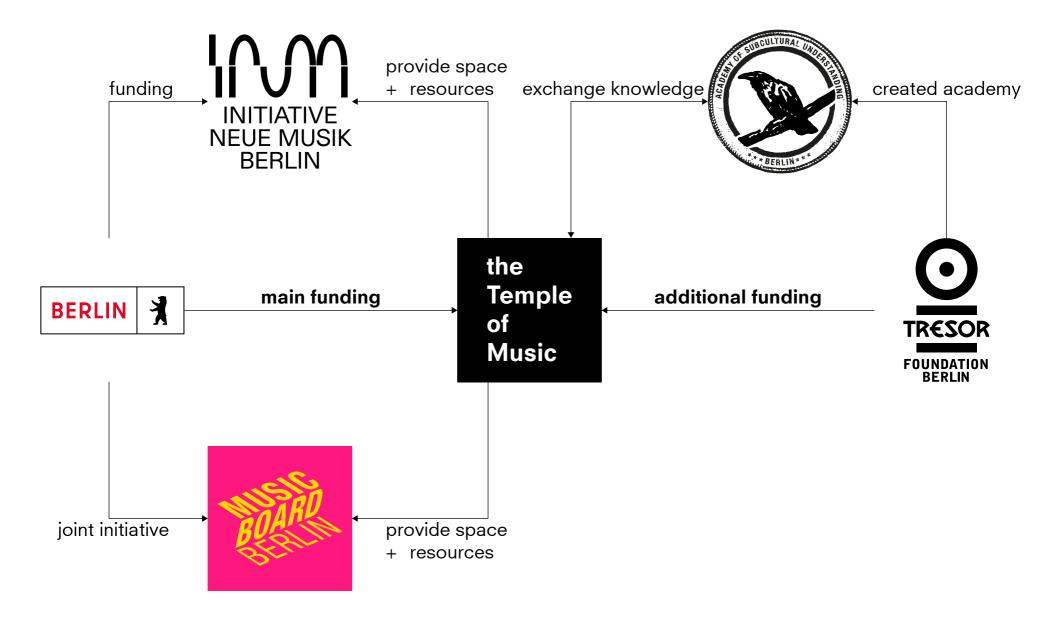
WHO PAYS FOR THIS?

STAKEHOLDER DIAGRAM

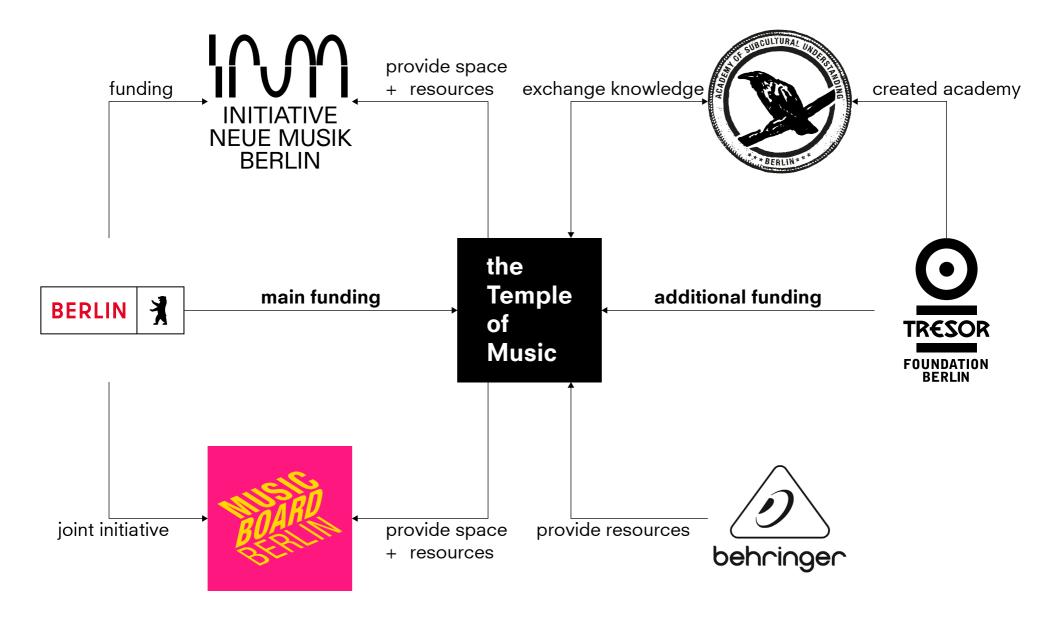




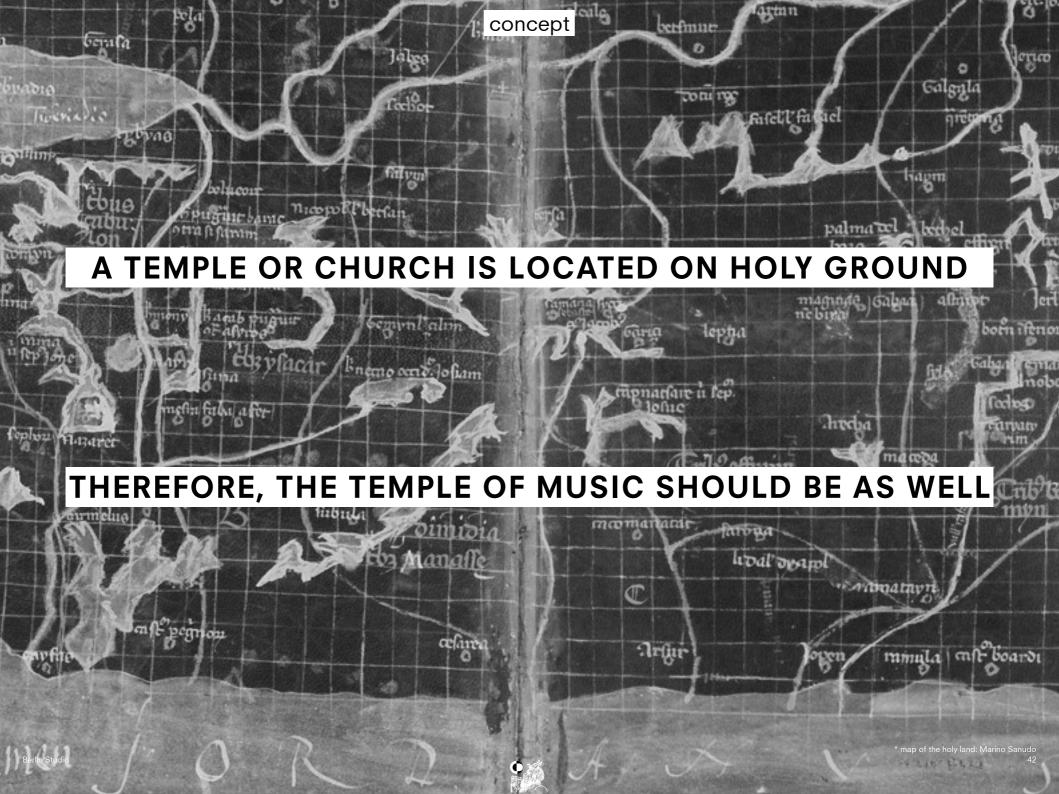
STAKEHOLDER DIAGRAM



STAKEHOLDER DIAGRAM



WHERE?



concept HOLY GROUND

WHAT IS HOLY GROUND IN THIS CONTEXT?



'HOLY' PHENOMENONS + SITES

















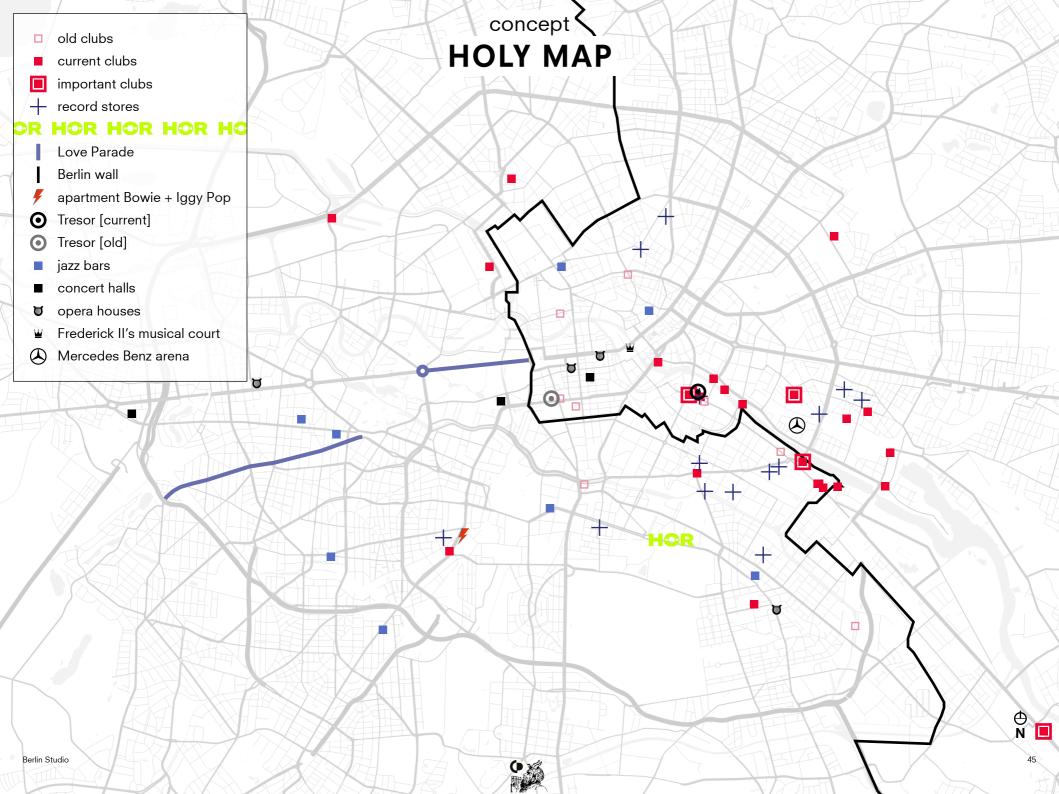


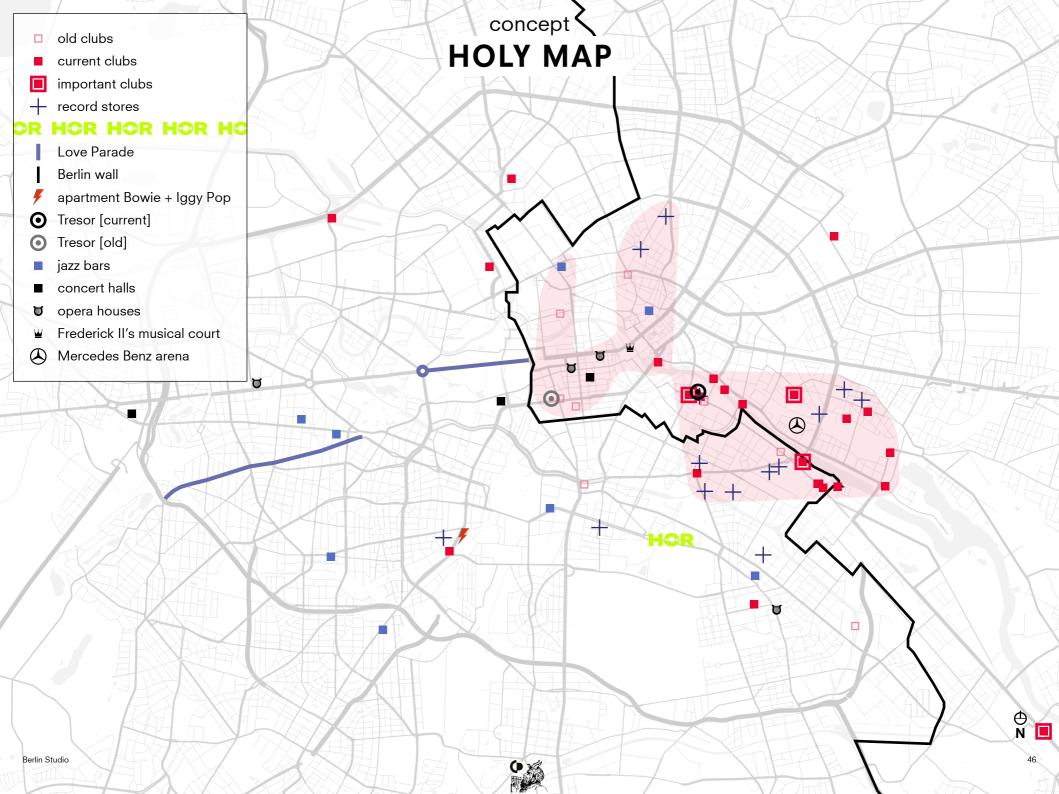












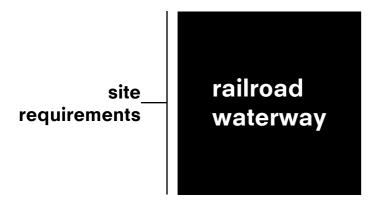
concept **AMBITION**



"Completely abandon carbon positive materials and on-site construction methodologies, to set a new standard."

GROUP REQUIREMENTS





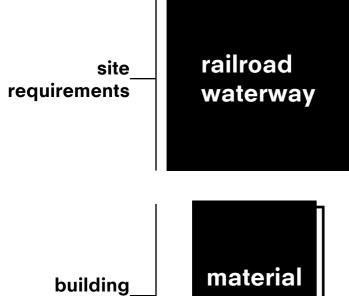
Berlin Studio

1/3 reuse

prominence

GROUP REQUIREMENTS







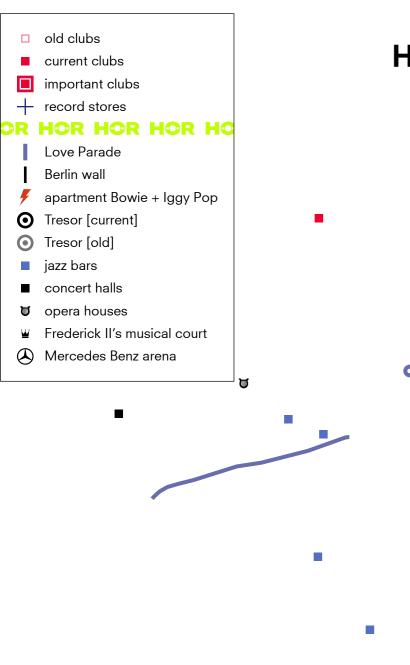
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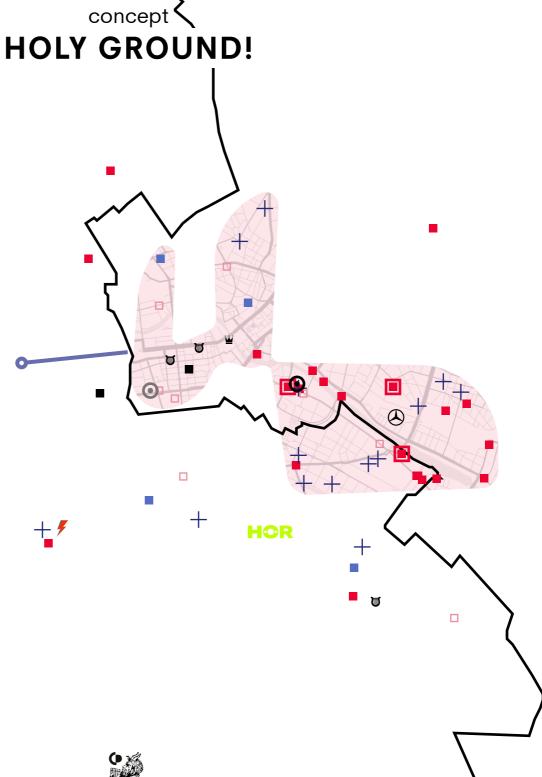
material hub

prominence

material index =40

requirements





OPERAS ANALYSED







Opera Garnier, PAR TPAC, TAI Staatsoper, BER Tivoli Vredenburg, UTR Concertgebouw, AMS





TEMPLES ANALYSED











Kölner Dom, COL **Borgund Stave Church, BOR Basilica Sancti Petri, ROM Church of the Resurection, JER Pantheon ROM** Hagia Sophia, IST Umayyad Mosque, DAM Laxminarayan Mandir, DEL Kinryu-an Senso-Ji, TOK **Taipei Confusius Temple, TAI**













MUSIC VENUES ANALYSED







Maassilo, ROT Berghain, BER Club LAAK, HAG Watergate, BER De School, AMS PIP, HAG RSO Berlin, BER Tresor, BER Fabric, LON















PROJECTS ANALYSED





















Kölner Dom, COL
Borgund Stave Church, BOR
Basilica Sancti Petri, ROM
Church of the Resurection, JER
Pantheon ROM
Hagia Sophia, IST
Umayyad Mosque, DAM
Laxminarayan Mandir, DEL

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Maassilo, ROT Berghain, BER Club LAAK, HAG

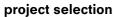






RESEARCH METHOD







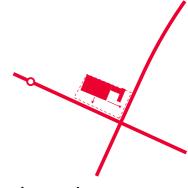
check satalite location



produce vector map



analyse vector map



view results

draw conclusion

CONCLUSION



important road

view axis

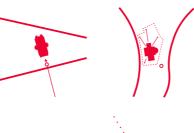
transit station

water (way)

park/ square

large space

enclosed





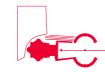








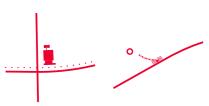


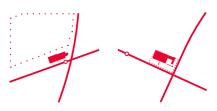
















nightclubs major road, waterway, railway repurposed noise industrial



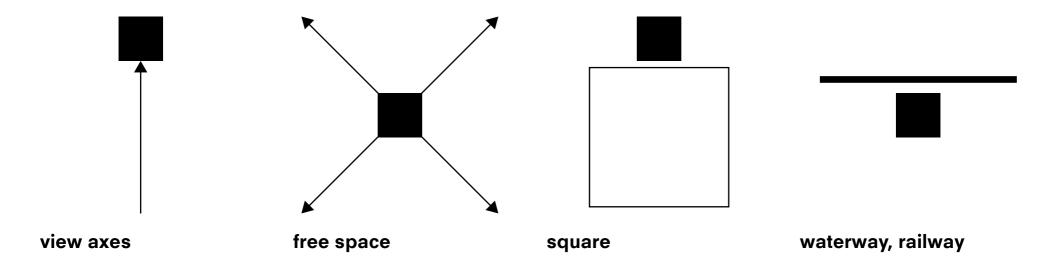




opera

 $\bigoplus_{\mathbf{N}}$

PROJECT IMPLEMENTATION



old clubs

current clubs

important clubs

+ record stores

OR HOR HOR HOR HO

Love Parade

Berlin wall

papartment Bowie + Iggy Pop

• Tresor [current]

Tresor [old]

jazz bars

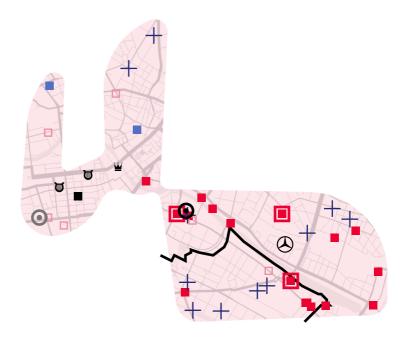
concert halls

opera houses

Mercedes Benz arena

concept

HOLY MAP



old clubs

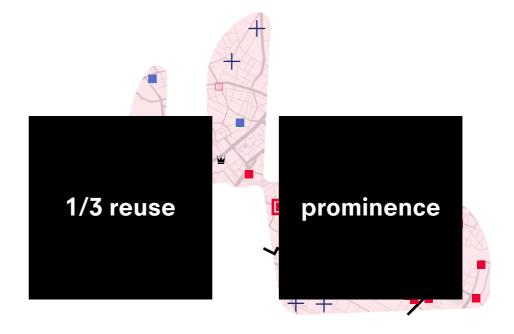
- current clubs
- important clubs
- + record stores

- Love Parade
- Berlin wall
- apartment Bowie + Iggy Pop
- Tresor [current]
- Tresor [old]
- jazz bars
- concert halls
- opera houses
- Frederick II's musical
- Mercedes Benz arena

railroad waterway

concept

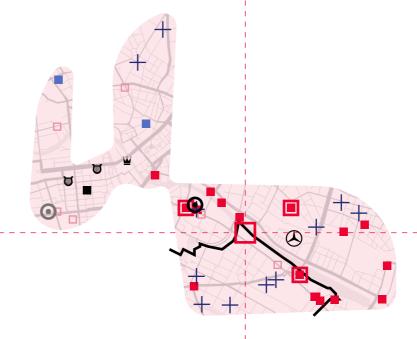
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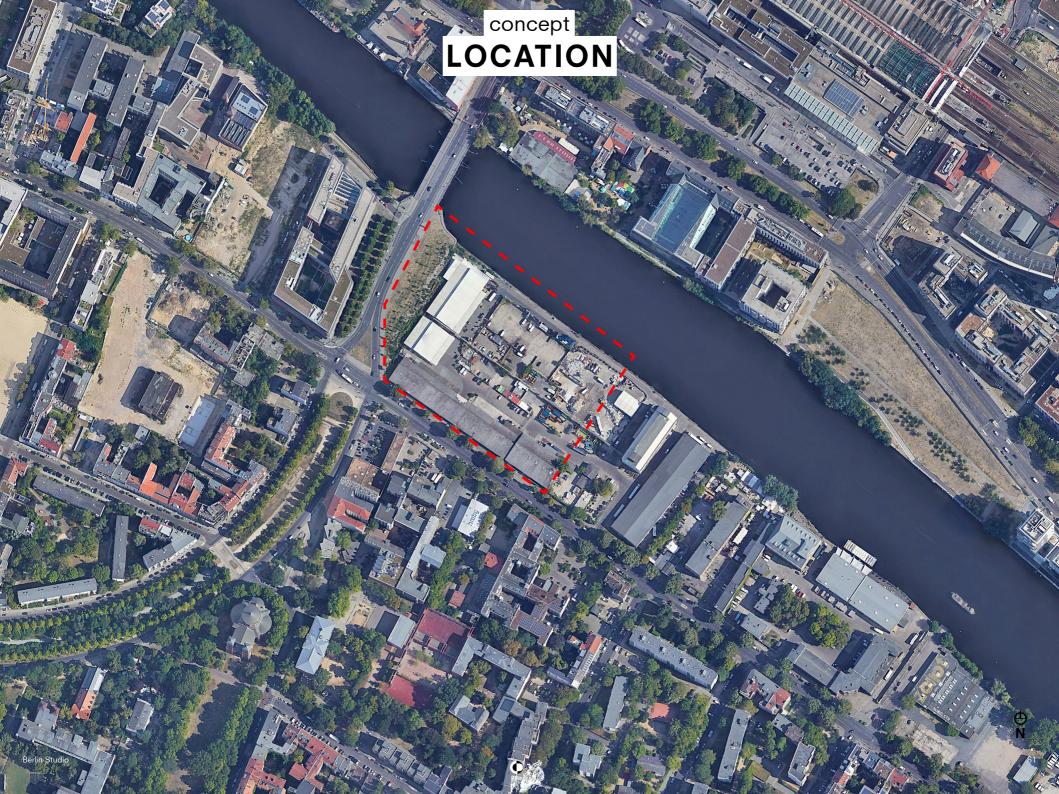


- old clubs
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- jazz bars
- concert halls
- opera houses
- Frederick II's musical court
- Mercedes Benz arena

LOCATION





KÖPENICKER STRAßE







Tresor



Planet





Kater Holzig



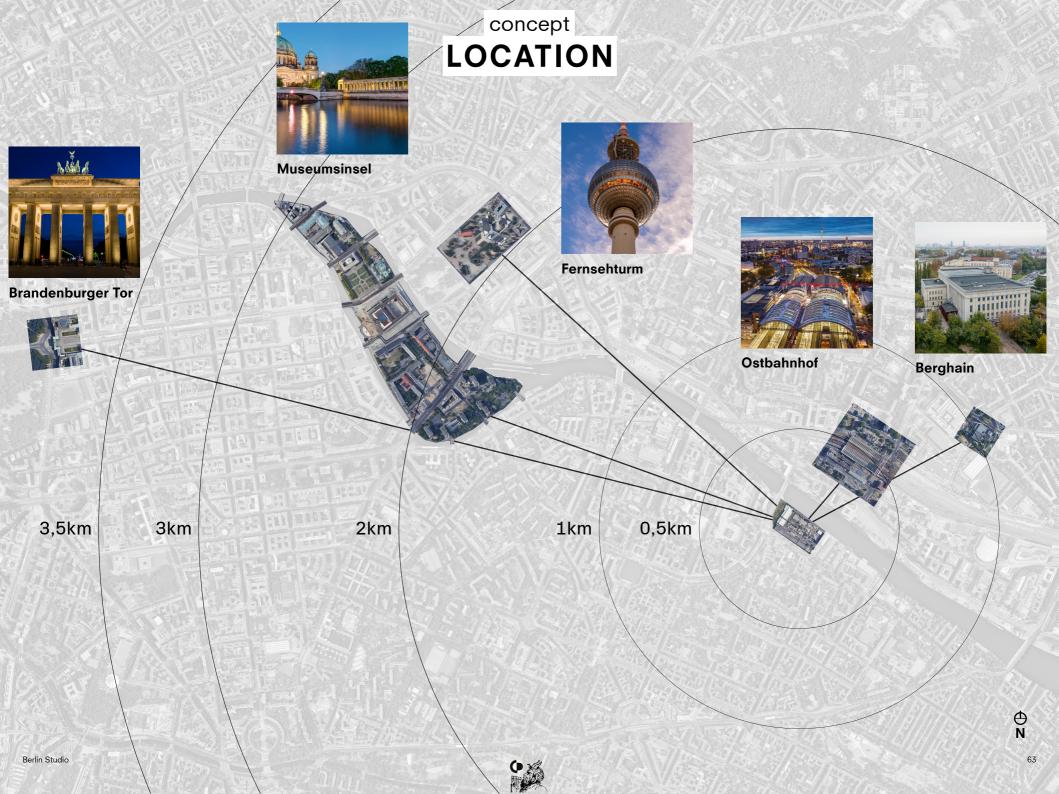
Hard Wax



ОНМ



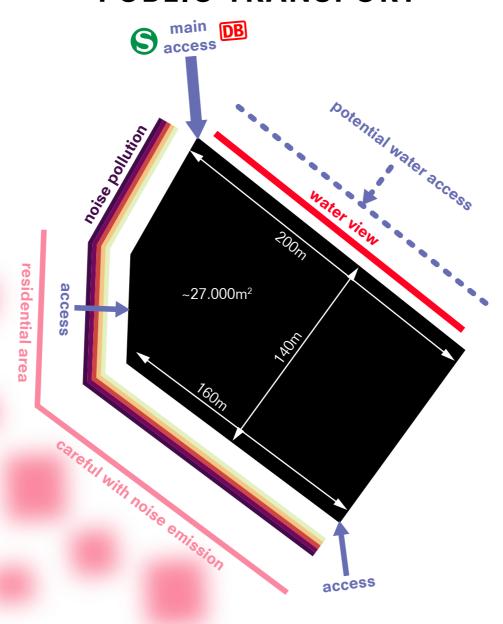
Re:Mise



PUBLIC TRANSPORT



- access points
- wharf potential
- view potential
- noise pollution
- residential area
 - residences
- S-bahn
- **DB** DB
 - park





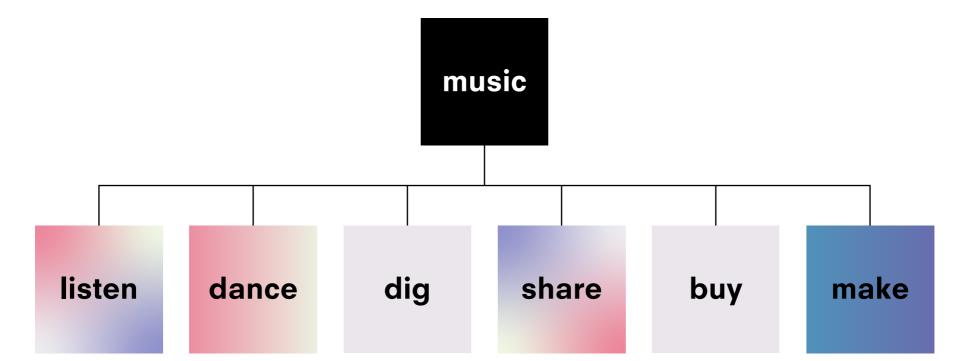


TEMPLE OF MUSIC?

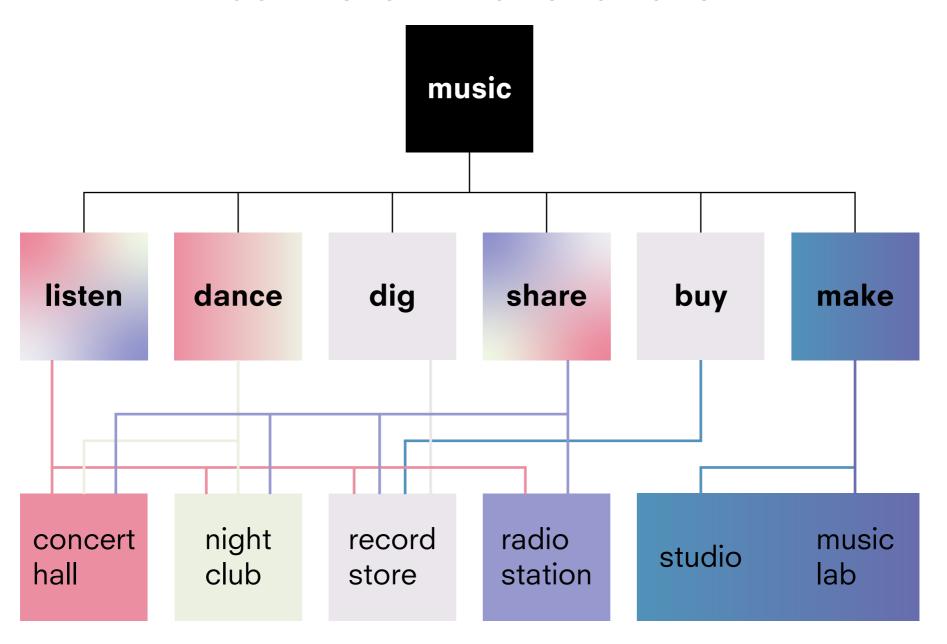
BERLIN IS ABOUT MUSIC



concept WHAT IS MUSIC ABOUT?



CORRESPONDING FUNCTIONS

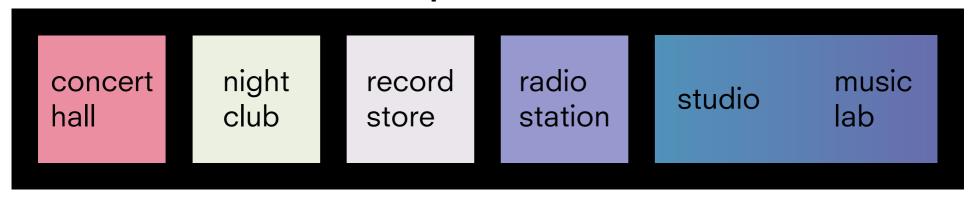




BUILDING FUNCTIONS



Temple of Music



AIM

to facilitate 24+ hours of music related entertainment and activities

the program needs elaborate hospitality features

such as: sleeping/ resting accomodation bathrooms resting/ lounge areas lockerrooms



AIM

to facilitate 24+ hours of music related entertainment and activities

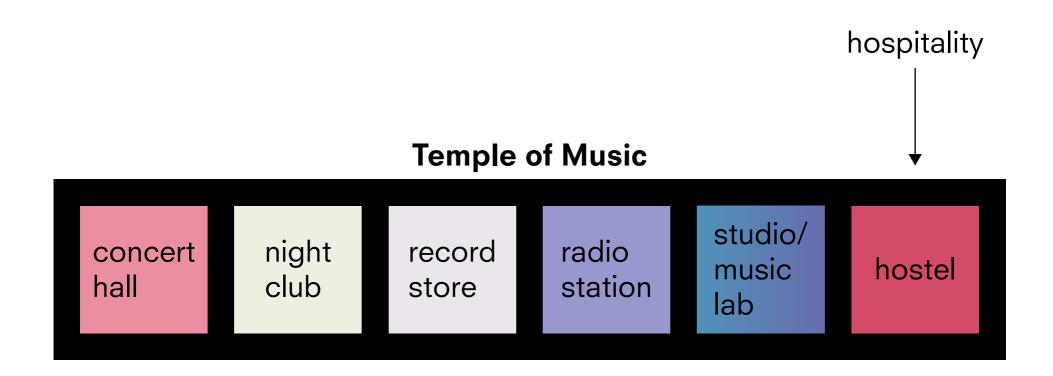
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the program needs elaborate hospitality features

→ such as: sleeping/ regional accommodation bathrocks below the such as such as: sleeping/ regional accommodation bathrocks below the such as such as: sleeping/ regional accommodation bathrocks below the such as such as: sleeping/ regional accommodation bathrocks below the such accommodation bathrocks below the such accommodation accommodation bathrocks below the such accommodation below the such accomm



concept ADD HOSPITALITY



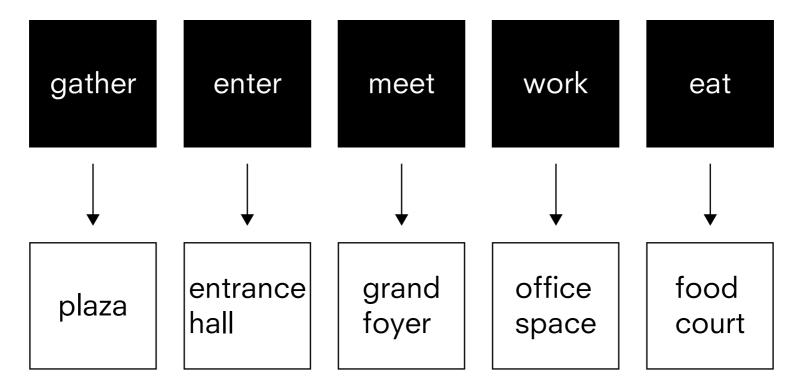
SUPPORTING FUNCTIONS?

at the Temple of Music all the users/ people need to:



SUPPORTING FUNCTIONS

at the Temple of Music all the users/ people need to:



Temple of Music



ALL FUNCTIONS

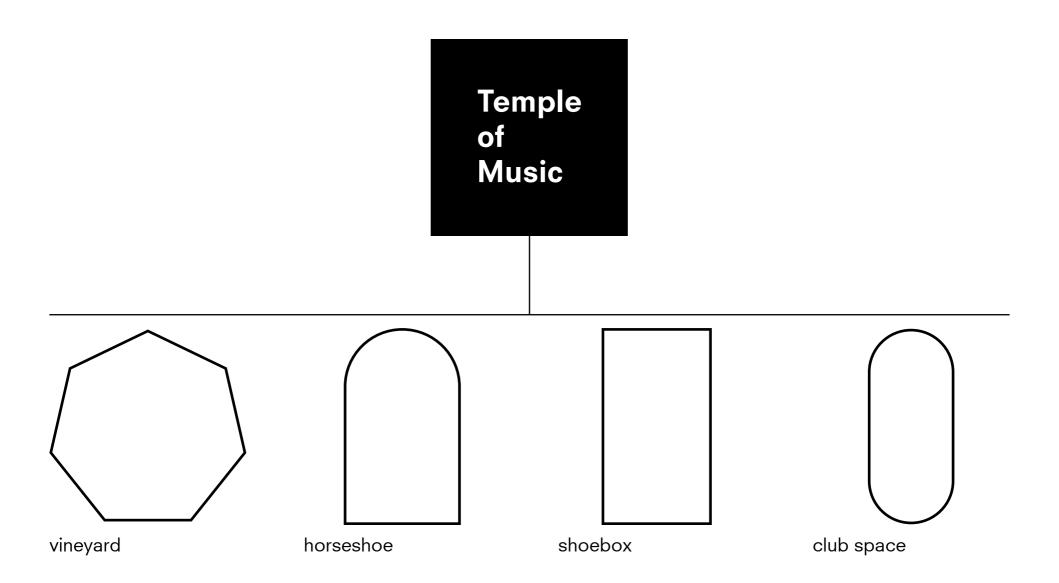
33,200 m²

			33.2	00 m²				
studio/ music lab	nightclub	concert hall	foodcourt	grand foyer	hostel	office	record store	entrance hall
4.060 m ²	8.400 m ²	15.100 m²	900 m²	1.560 m²	1.630 m²	450 m²	300 m²	800 m²
			logistics	user circulation 20%				
			20% of 33.200 m ² 6.640 m ²	20% of 33.200 m ² 6.640 m ²				
			46.4	80 m²				
			46.5	~ 00 m²				
		15.100 m²	8.400 m²	4.060 m ² 300 m ² 1.630 m ² 1.560 m ²	430 m ² 800 m ² 6.640 m ²	6.640 m²		
		concert hall	nightclub	studio/ music lab record store hostel grand foyer foodcourt	ontoe entrance logistics	user circulation		

TIMETABLE

	mo	nday	/		tues	sday	′	W	edn	esda	ау		thur	sday	/		fric	day			satu	rday	/		sun	day	
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MULTIPLE AUDITORIUMS







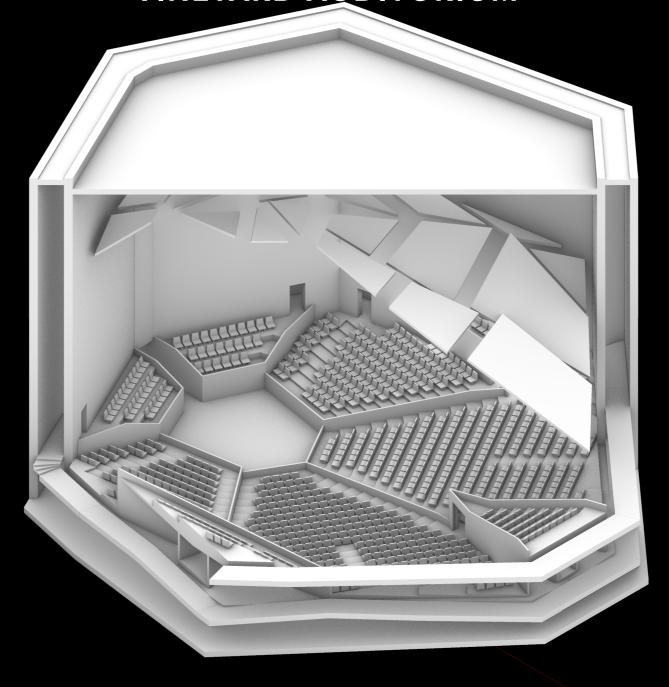






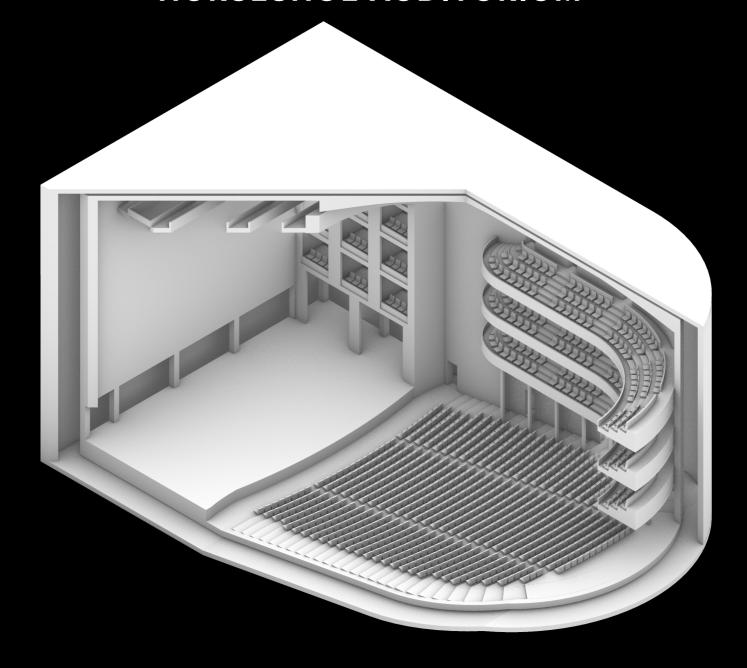


concept VINEYARD AUDITORIUM



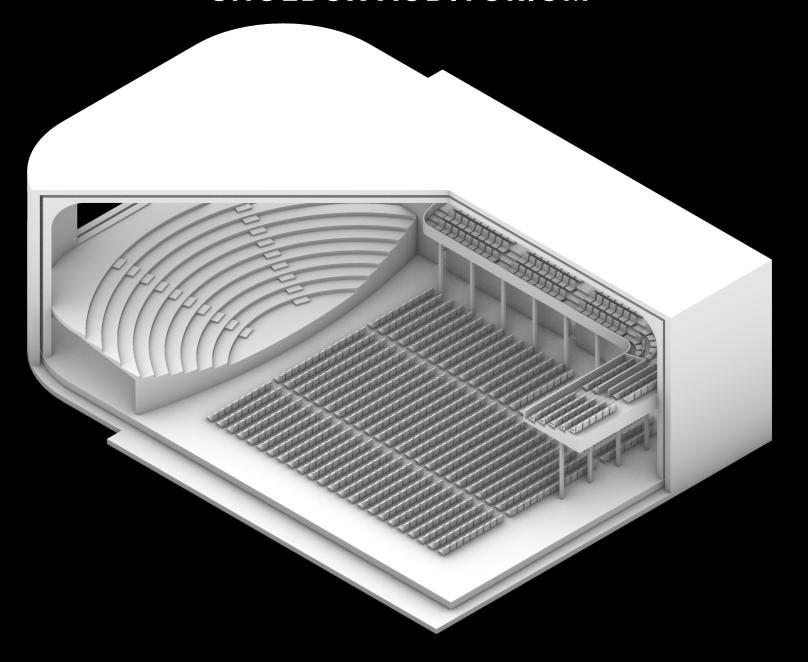


concept HORSESHOE AUDITORIUM



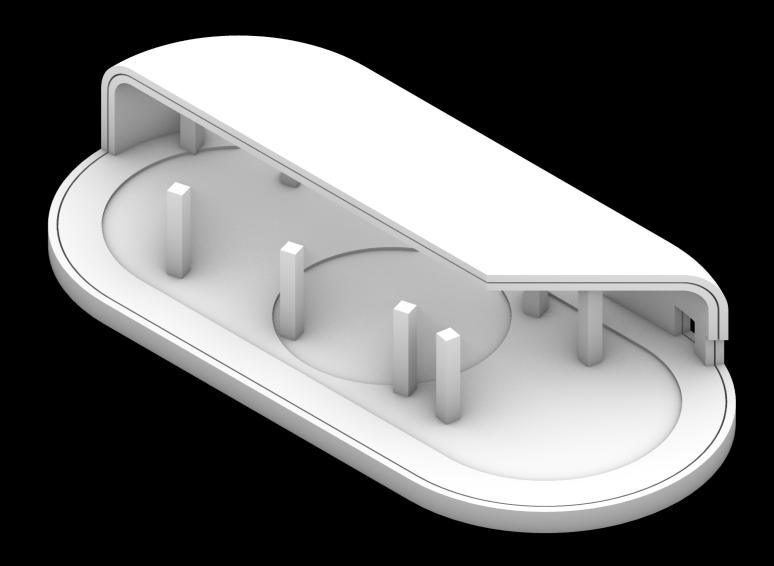


concept SHOEBOX AUDITORIUM





concept CLUB SPACE





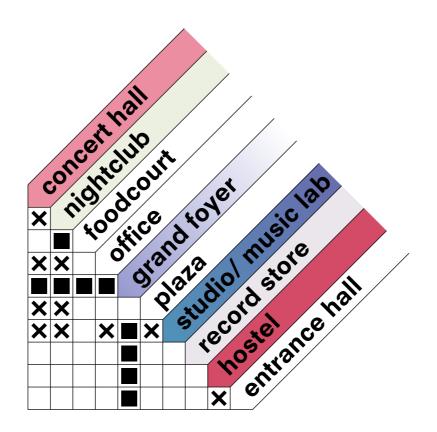
ALL FUNCTIONS WITH AREA

33.200 m²

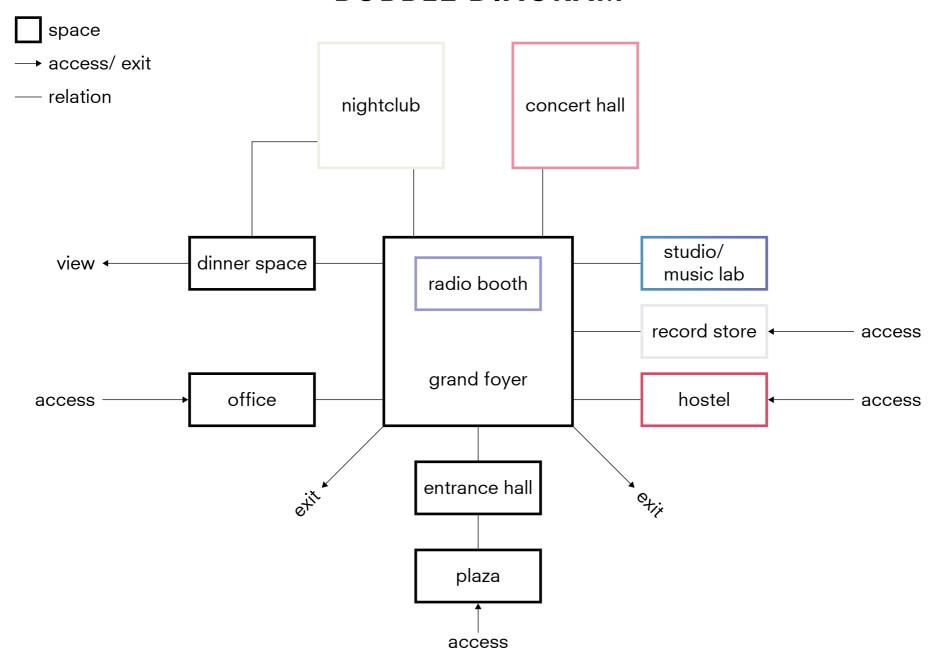
studio/ music lab	nightclub	concert hall 15.100 m ²		foodcourt	grand foyer	hostel	office	record store	entrance hall
4.060 m ²	8.400 m ²			900 m²	1.560 m ²	1.630 m ²	450 m²	300 m²	800 m²
recording studios 240 m²	toilets 400 m²	main auditorium 2.000 m²	foyer 400 m²	dining area 200 m²	dj booth 10 m²	lobby 150 m²	toilets 100 m ²	retail space 100 m²	coat check 200 m²
workshop 2.400 m²	smoking area 400 m²	auditorium 6.000 m²	educational spaces 800 m ²	square 400 m²	broadcasting tower x m ²	locker room 100 m ²	kitchenette/ break room 50 m²	storage/ archive 200 m ²	rec./ tick./ box office 100 m ²
control room 120 m²	locker room 200 m ²	setup areas 1.000 m ²	rehearsal rooms 800 m²	kitchen 100 m²	server room 50 m ²	storage 100 m²	office space 300 m ²		hall 500 m ²
lounge 400 m²	lounge 800 m ²	control room 250 m ²	green room 800 m ²	storage 100 m ²	bar 50 m²	laundry facility 200 m²			
foyer 200 m²	artist lounge 100 m ²	storage 1.000 m ²	artist toilet 500 m²	toilets 100 m ²	kitchen 50 m²	sleeping acc. 500 m ²			
storage 400 m²	hall 6.000 m²	meeting rooms 400 m ²	dressing rooms 250 m ²		storage 200 m²	bathrooms 500 m ²			
toilets 300 m ²	bar 300 m²	toilets 500 m ²			hall 1.000 m ²	toilets 80 m ²			
	storage 200 m ²	lobby 400 m²							

RELATION SCHEME

- should relate
- x shouldn't relate
- doesn't matter



BUBBLE DIAGRAM



MASSING REFERENCES













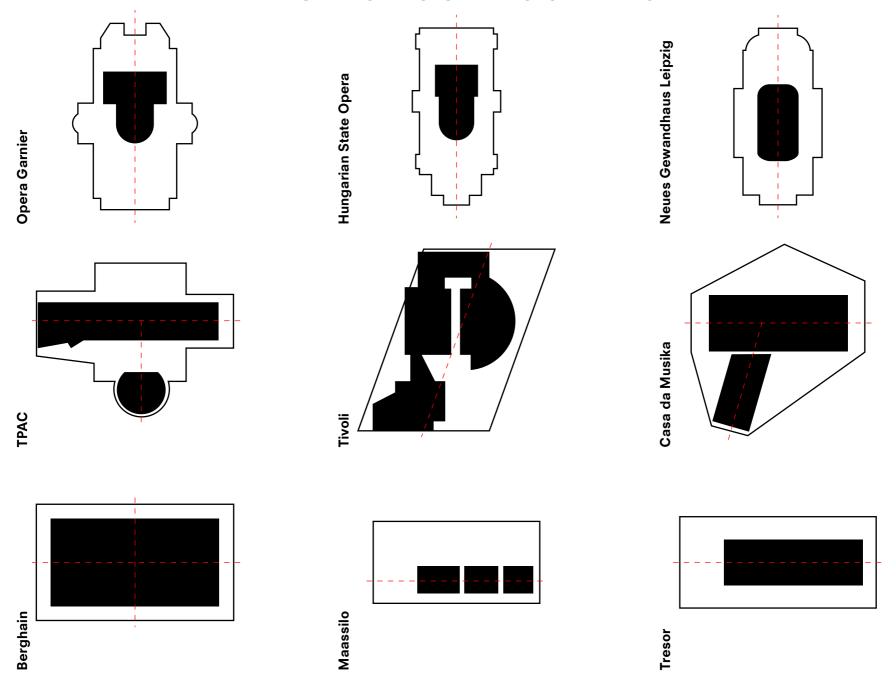




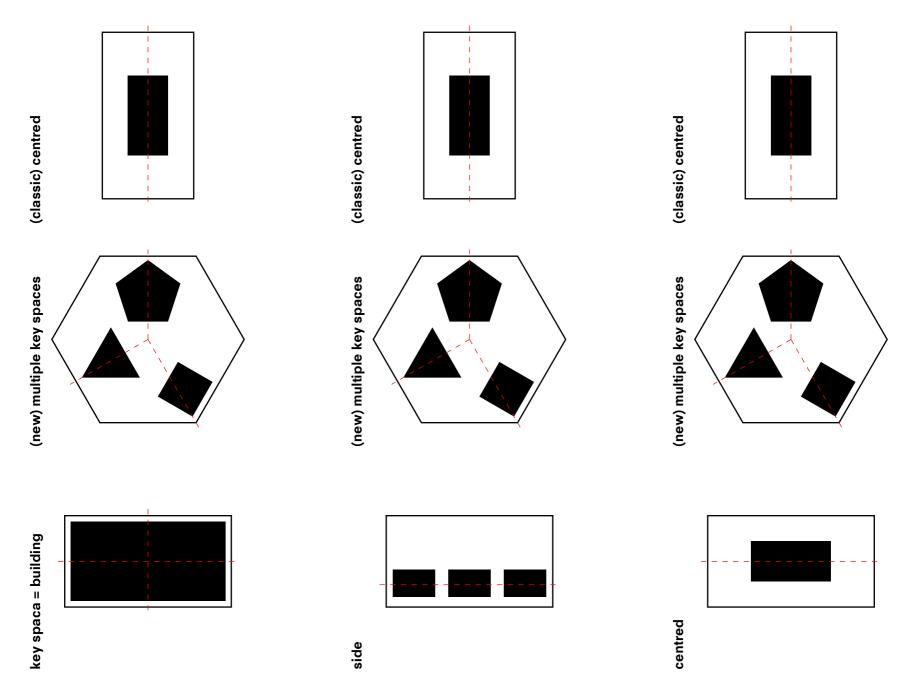




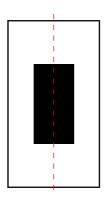
KEY SPACE CONFIGURATION



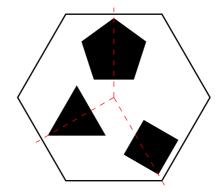
ABSTRACTION



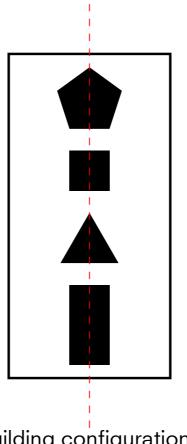
concept COMBINATION

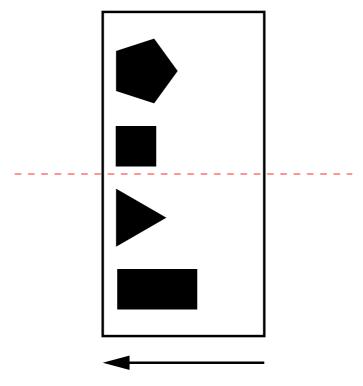






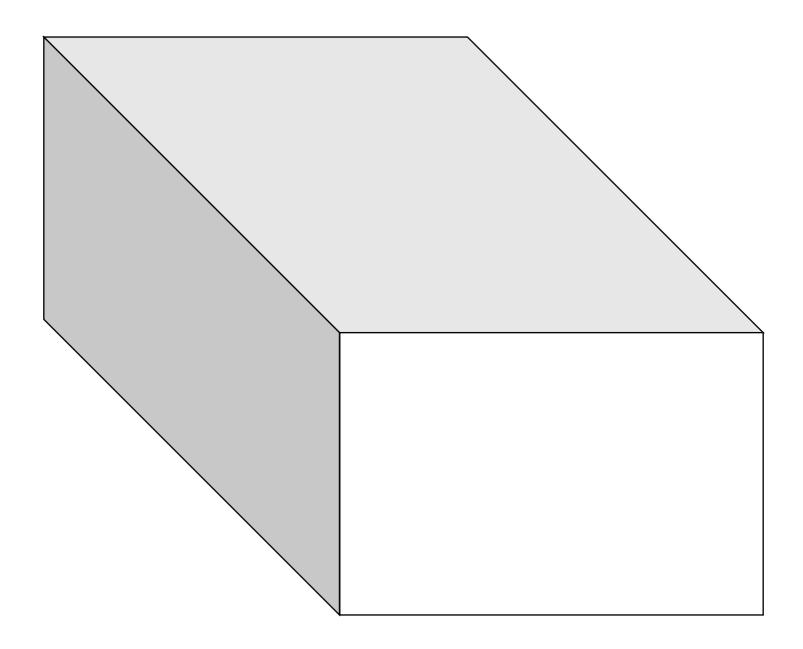
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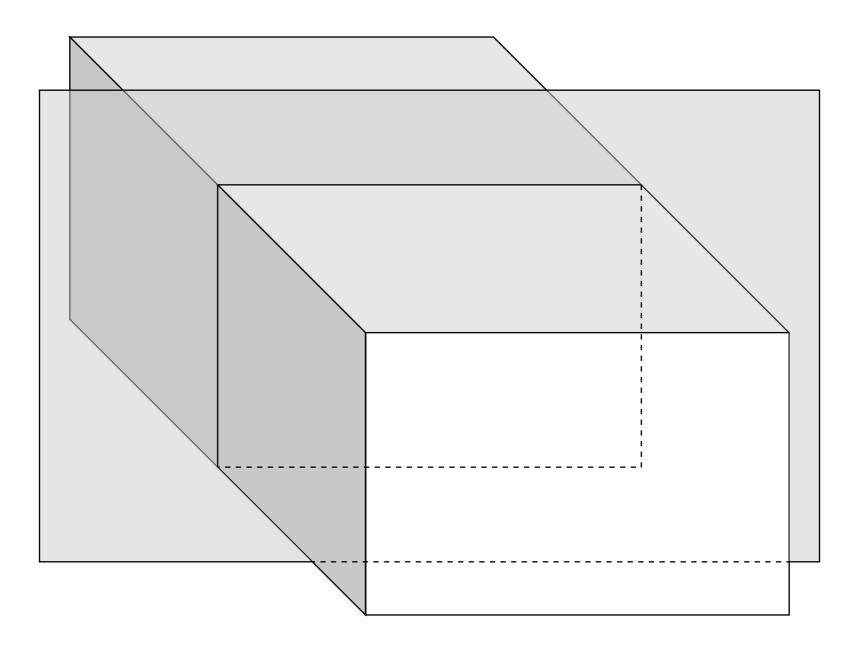


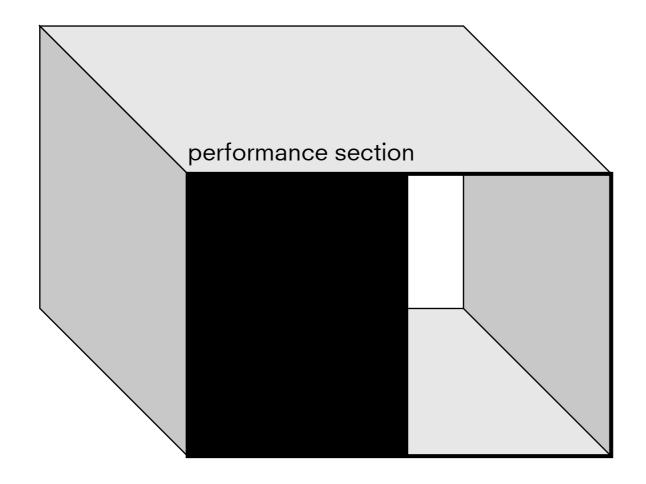
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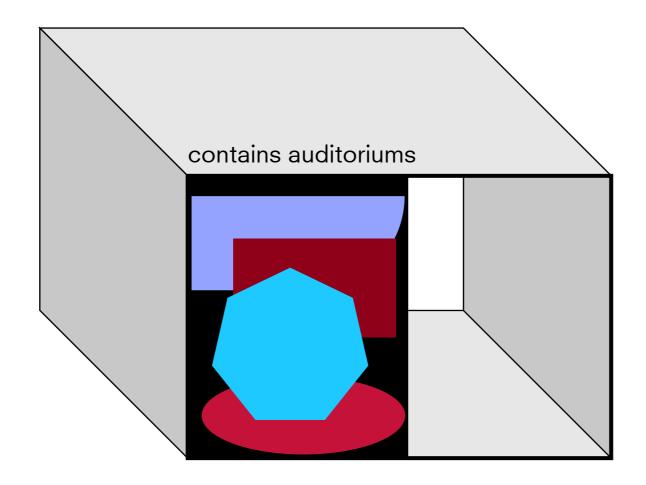
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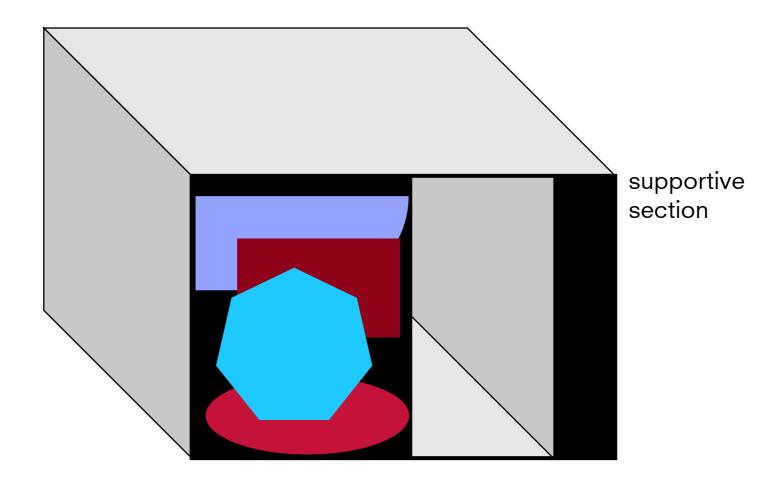


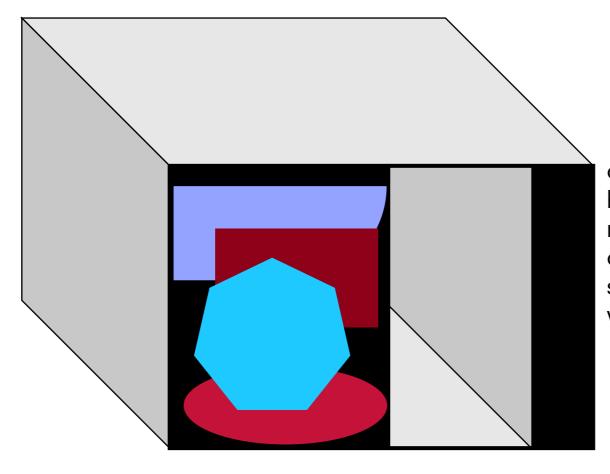
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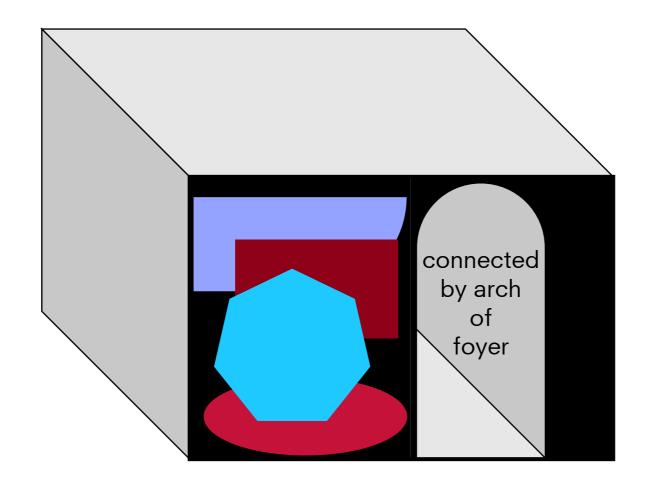




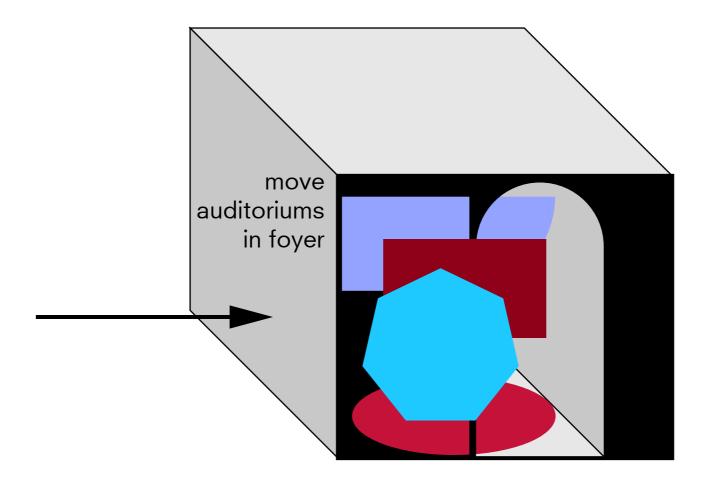


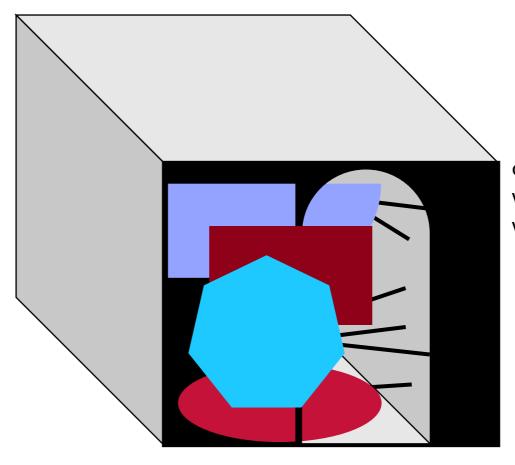
contains
hostel
record store
office
studio spaces
workshops

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INTERNAL CONCEPT





connect with walking bridges

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PROJECTS ANALYSED





















Concertgebouw, AMS Kölner Dom, COL **Borgund Stave Church, BOR Basilica Sancti Petri, ROM** Church of the Resurection, JER **Pantheon ROM** Hagia Sophia, IST **Umayyad Mosque, DAM** Laxminarayan Mandir, DEL Kinryu-an Senso-Ji, TOK

Taipei Confusius Temple, TAI



























Maassilo, ROT Berghain, BER Club LAAK, HAG

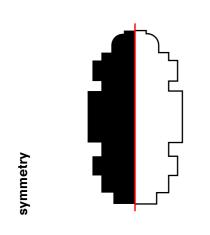


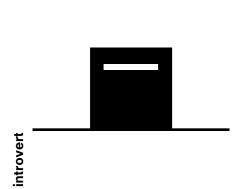


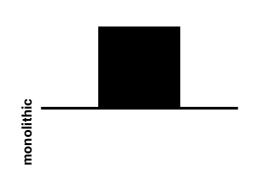


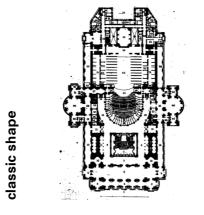
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MASSING AMBITIONS

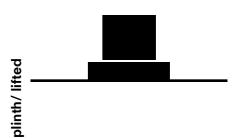




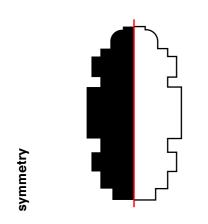


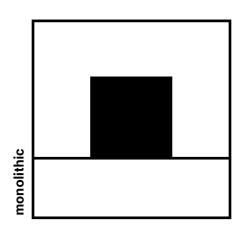




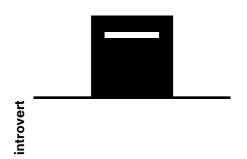


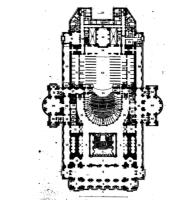
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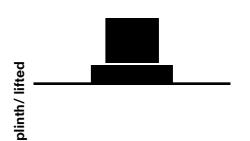


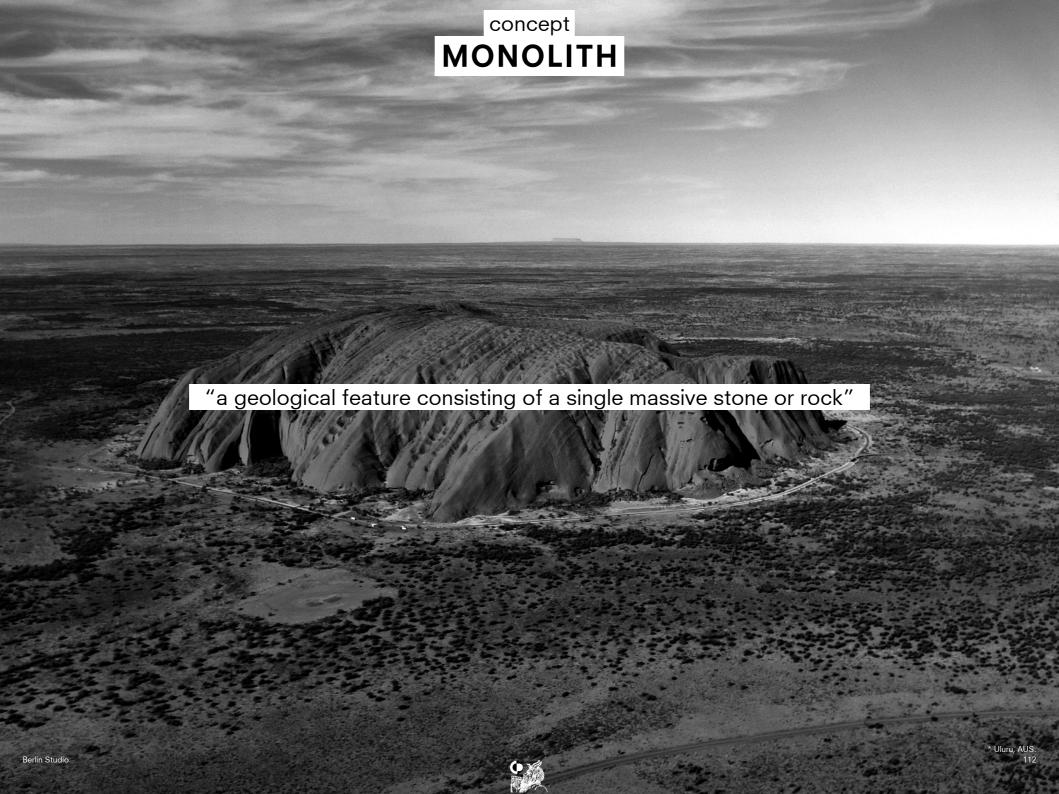






classic shape

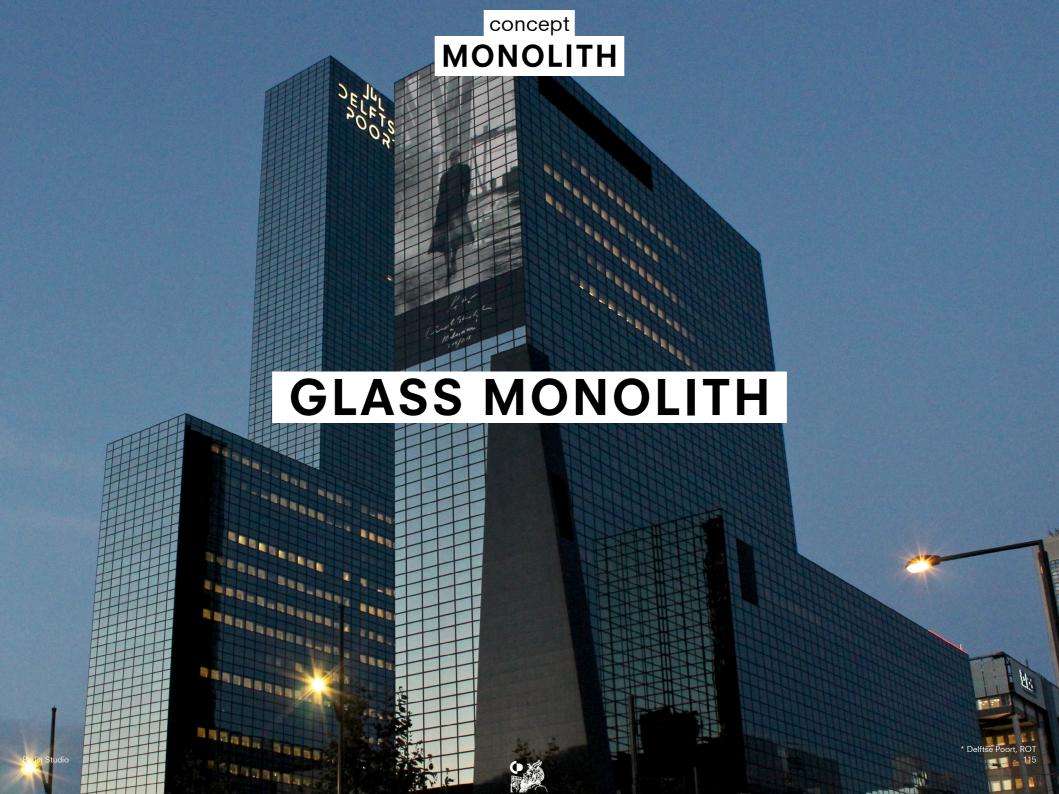




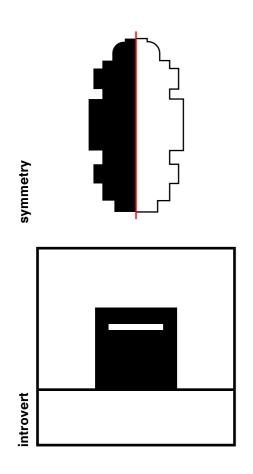


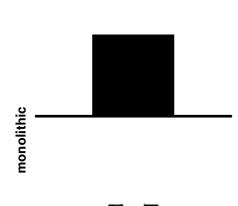


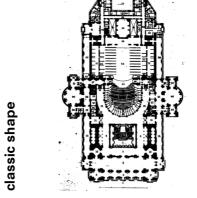




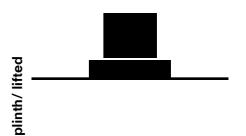
MASSING AMBITIONS













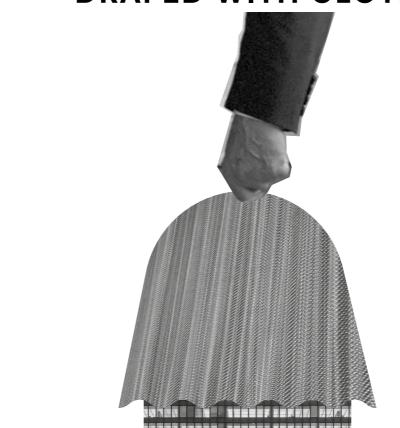




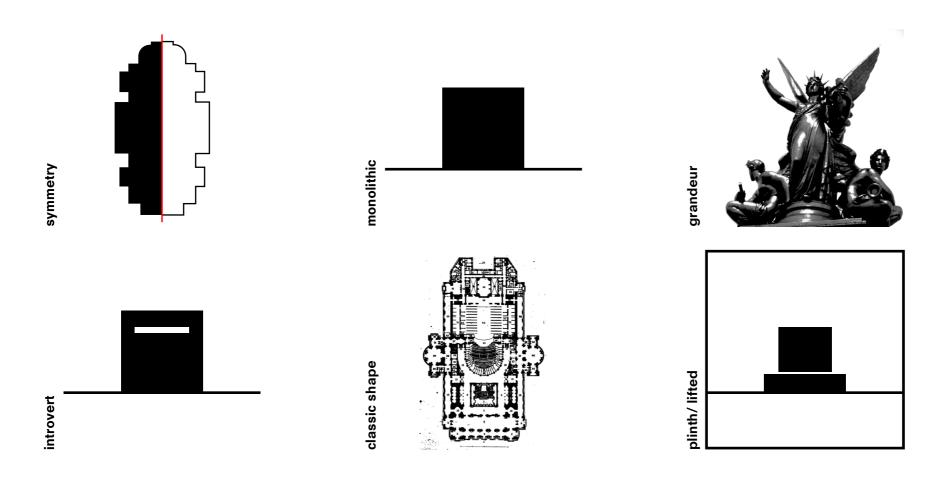
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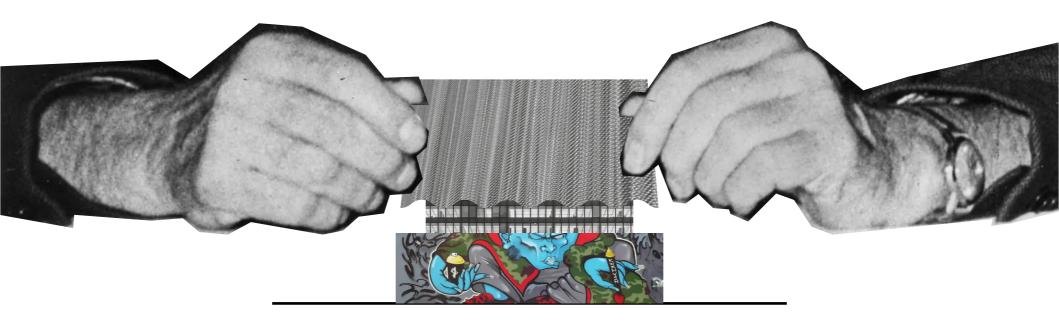
MASSING AMBITIONS







SET ON PLINTH



contents

INTRODUCTION

CONCEPT

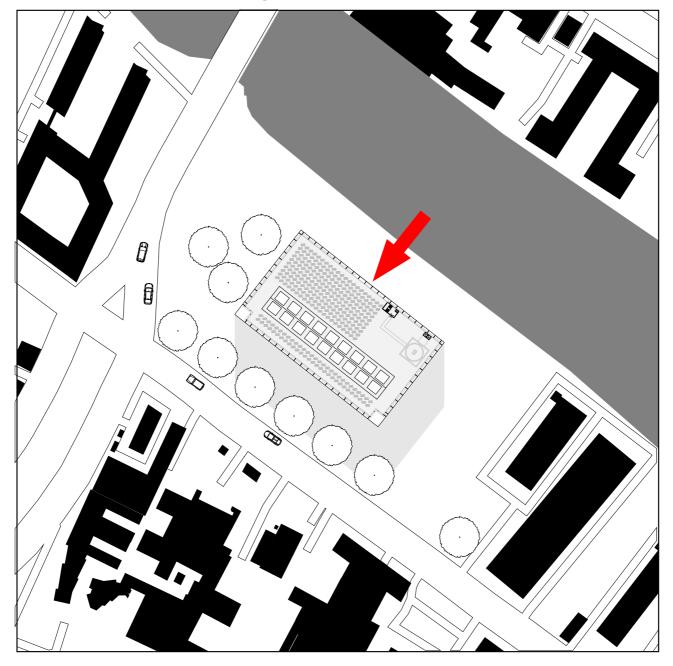
IMPLEMENTATION

CONCLUSION

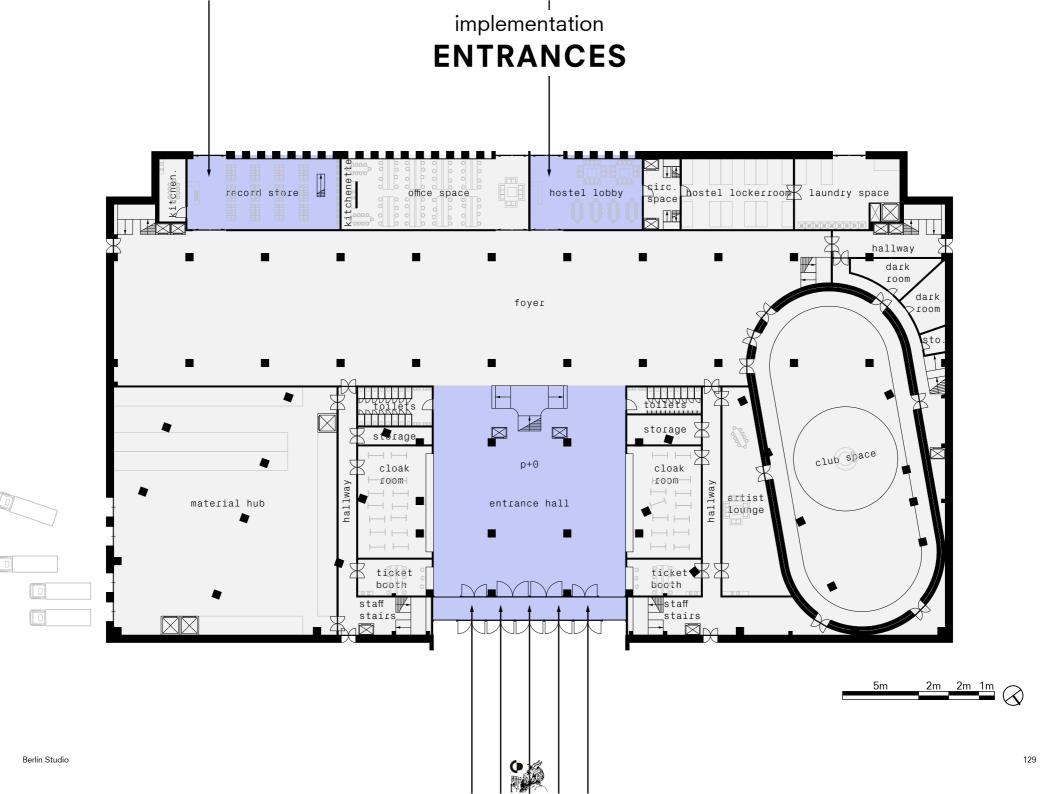


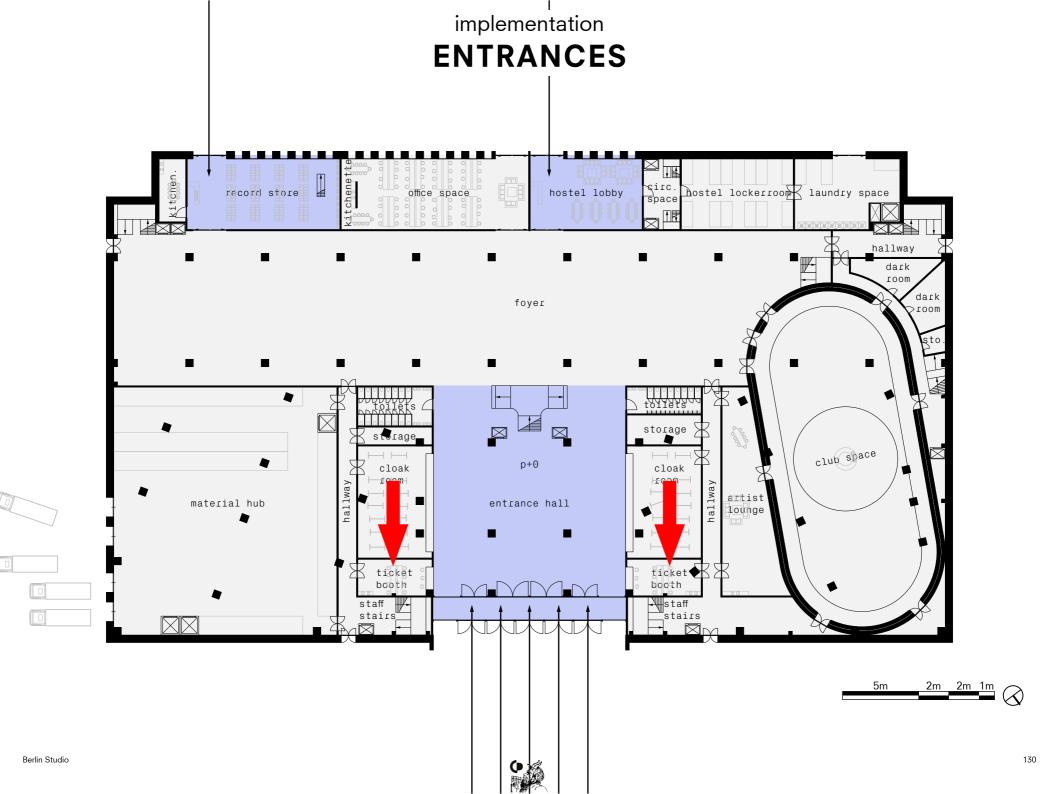
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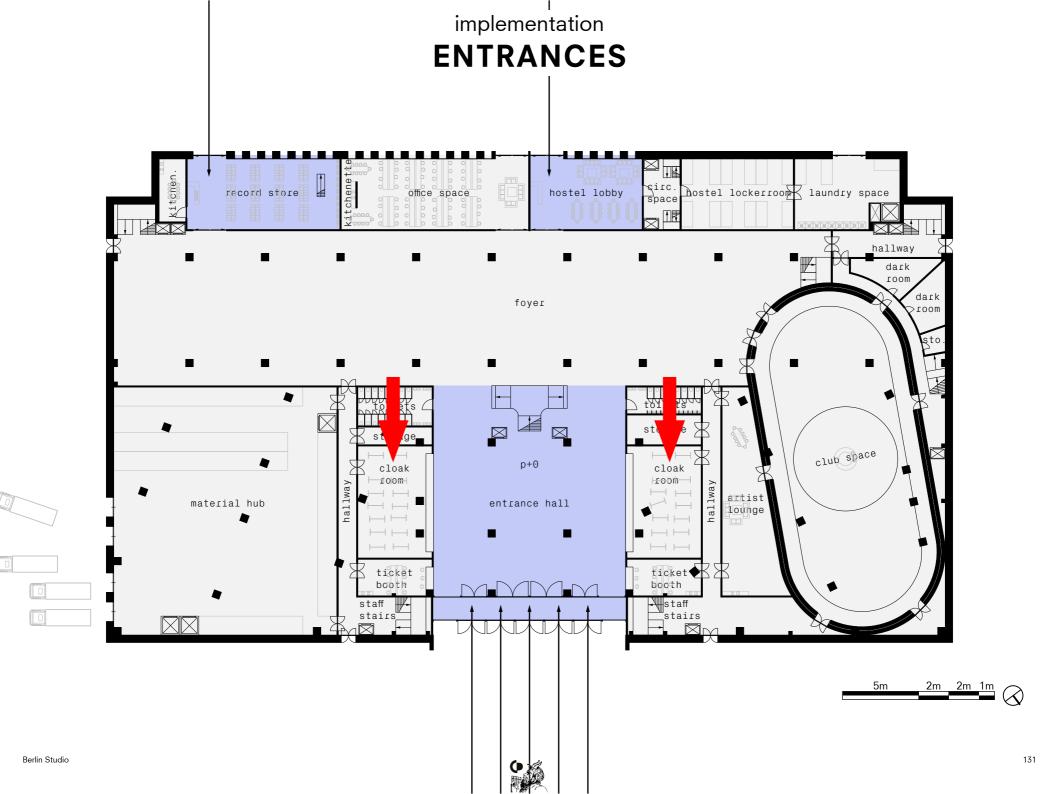
SITE PLAN

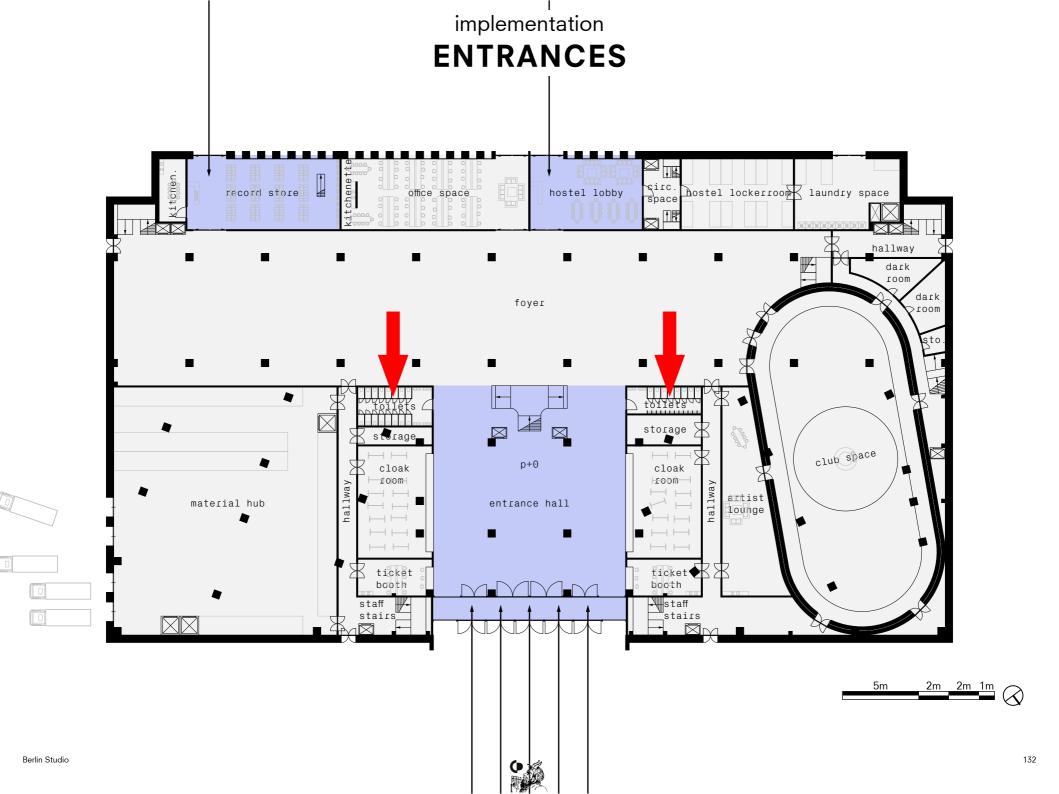


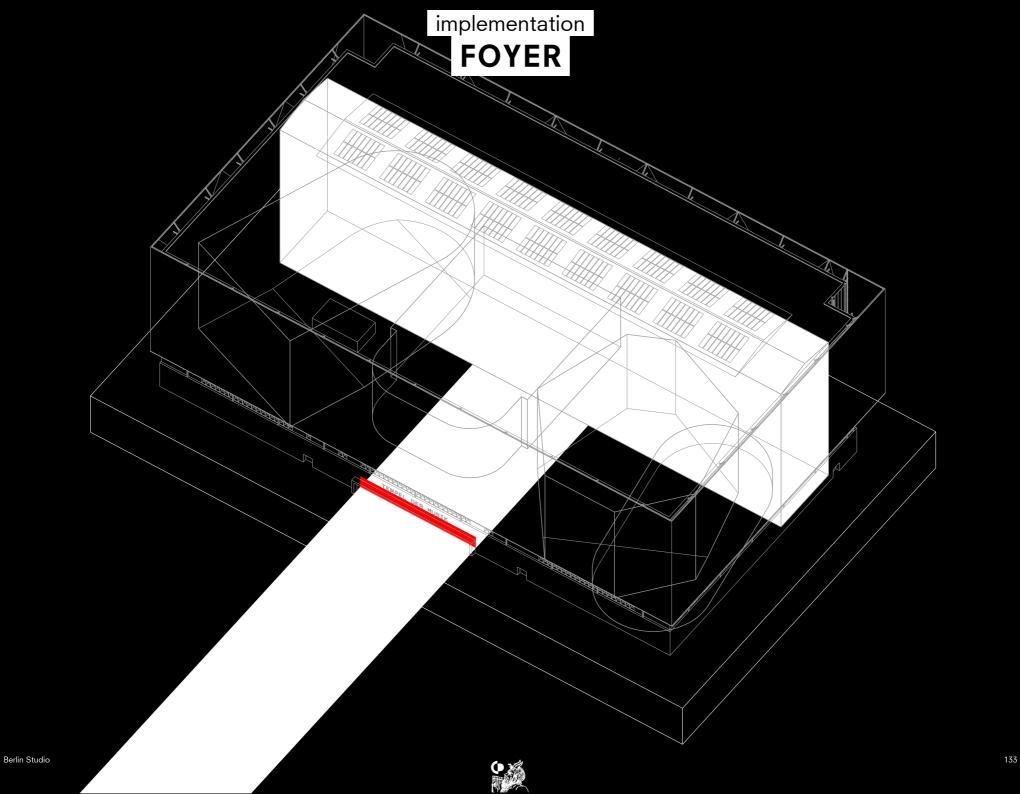






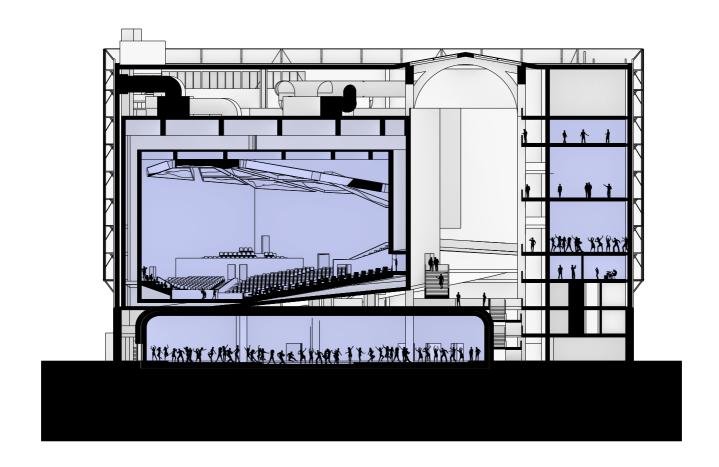


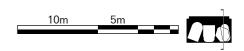




implementation

SECTION CC'



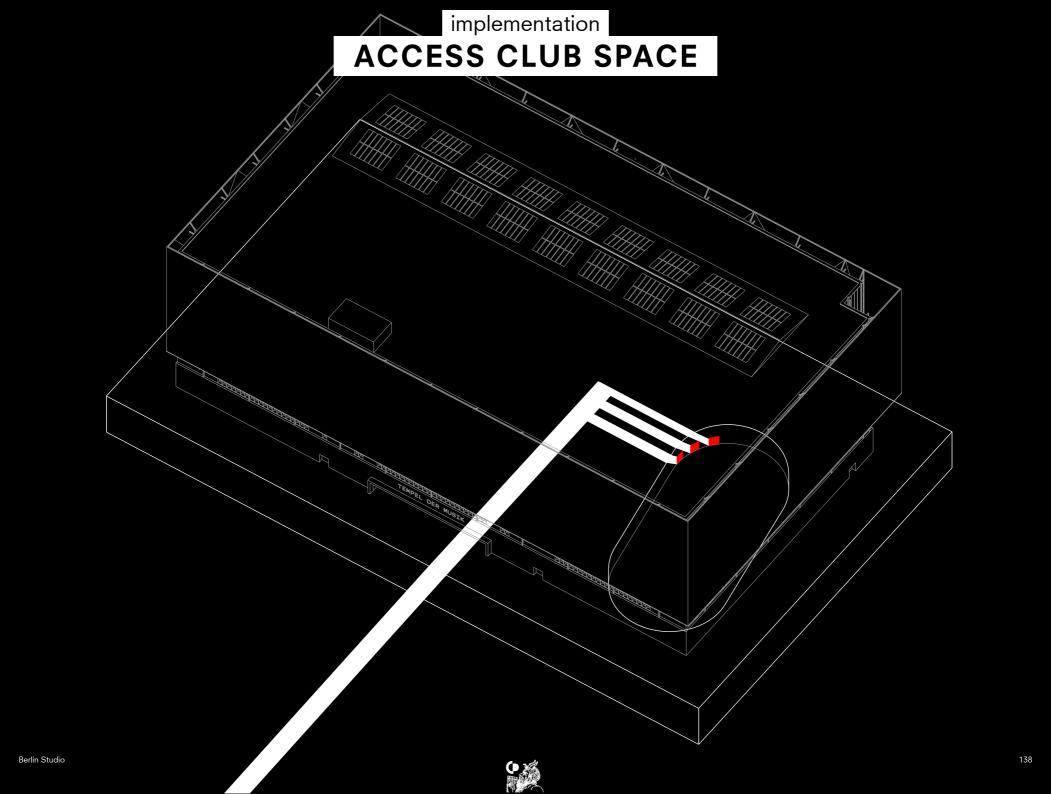


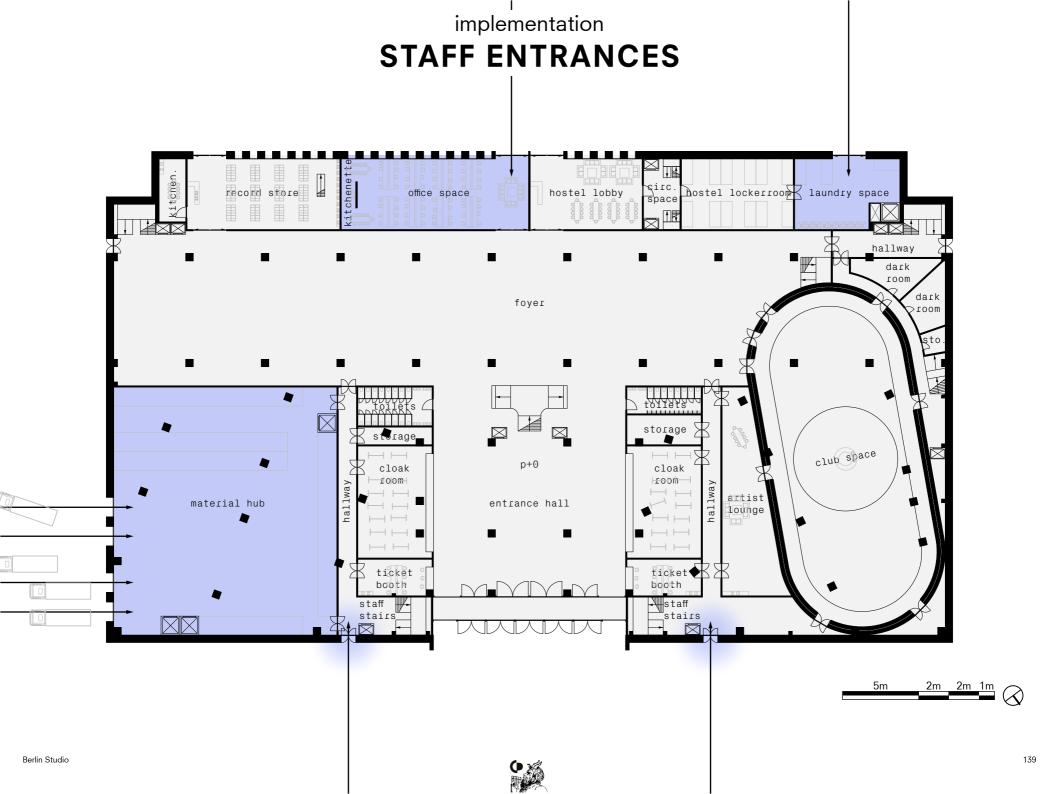






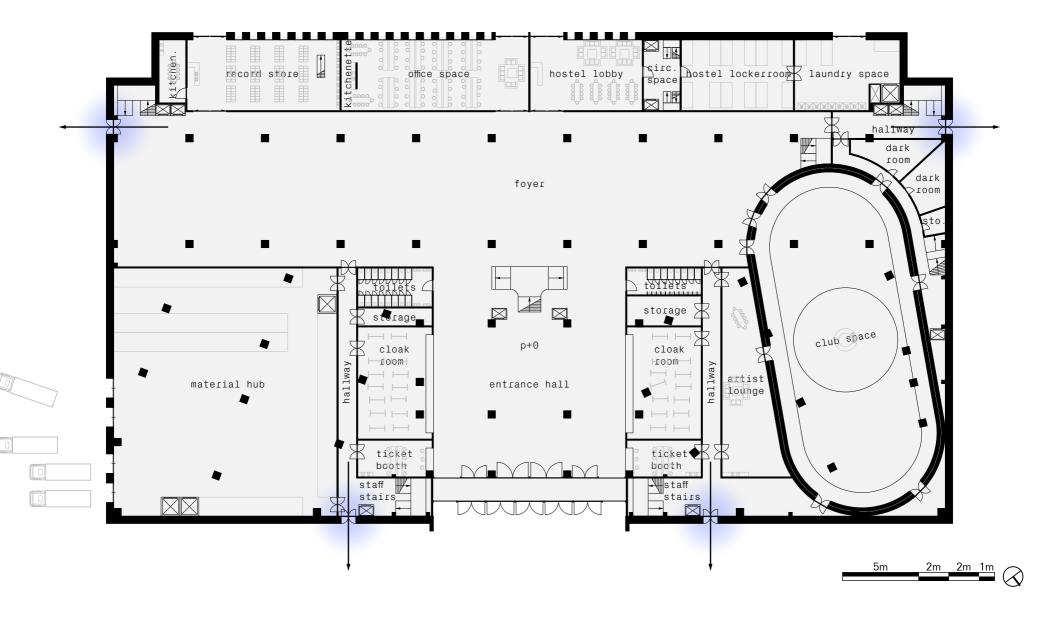




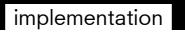


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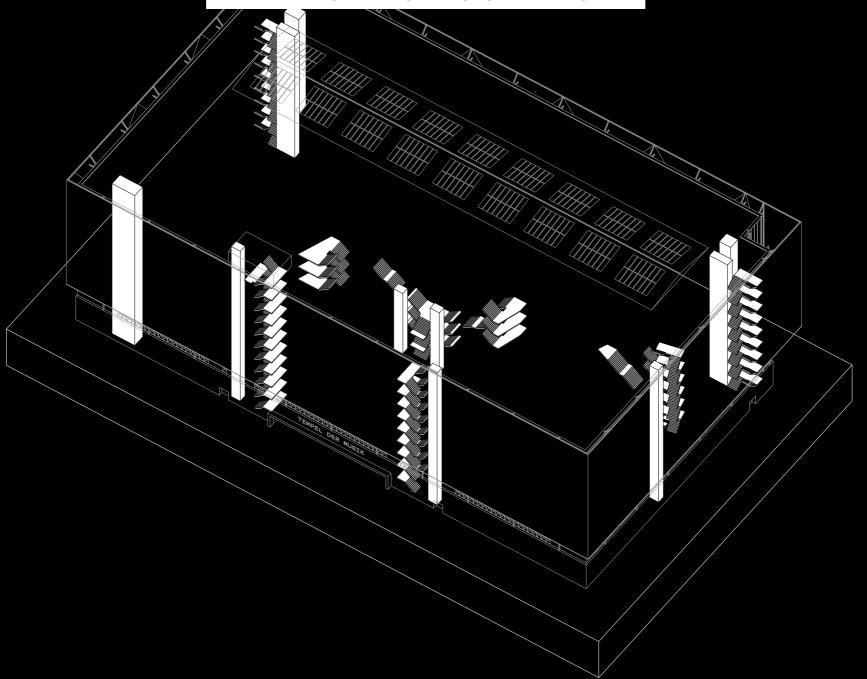
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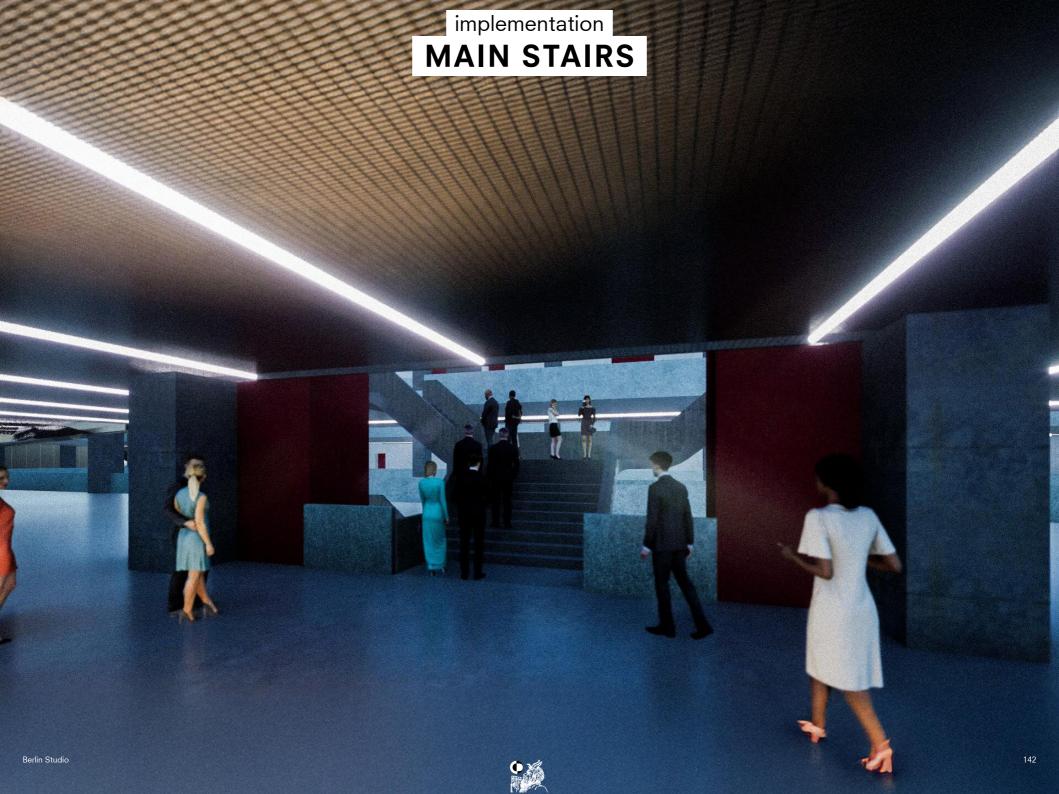






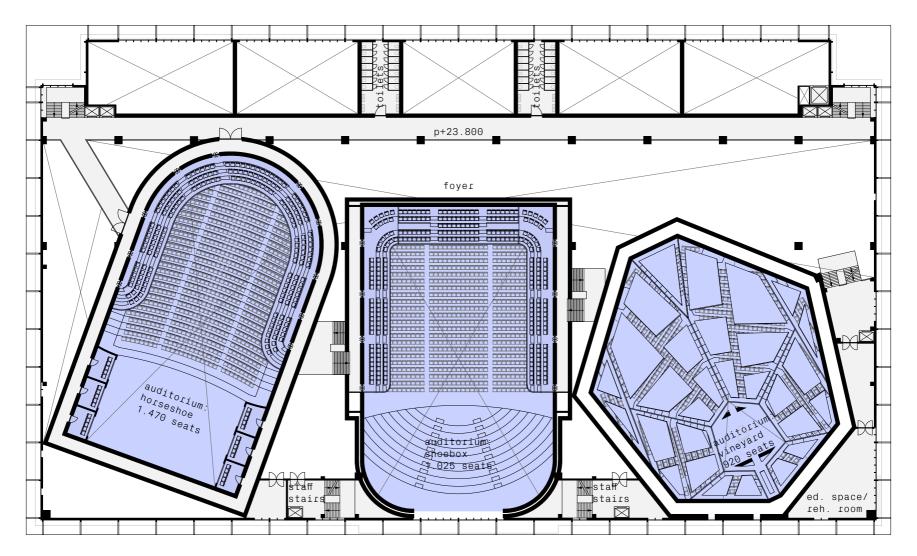
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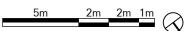




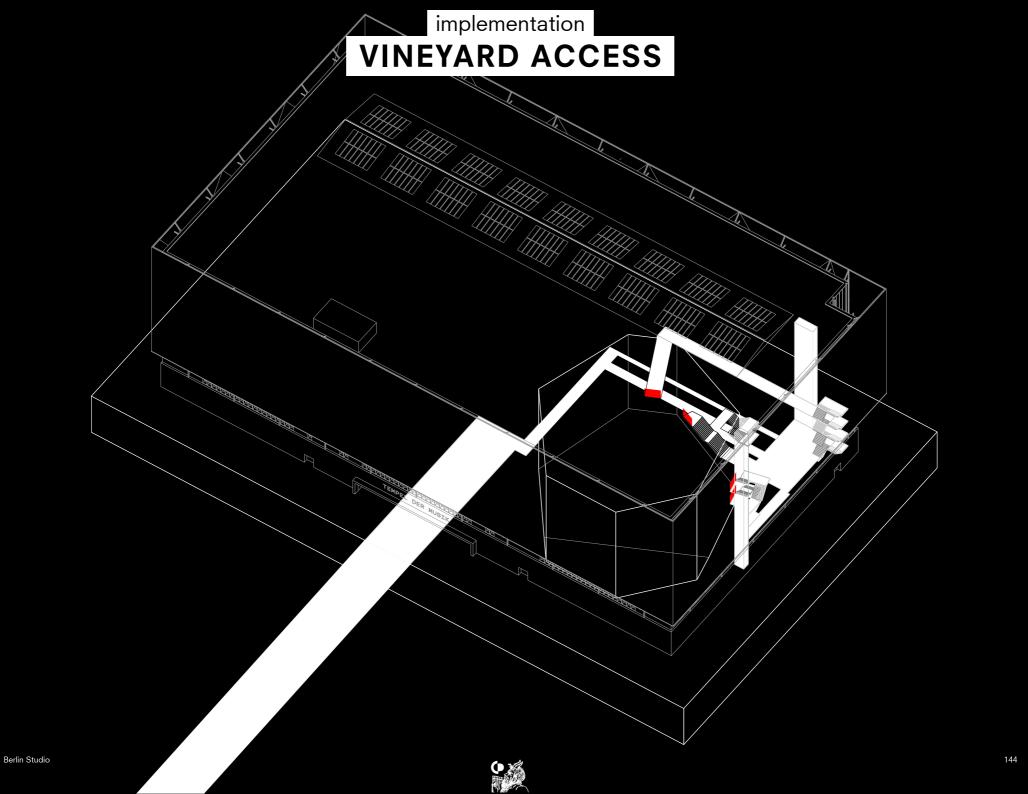
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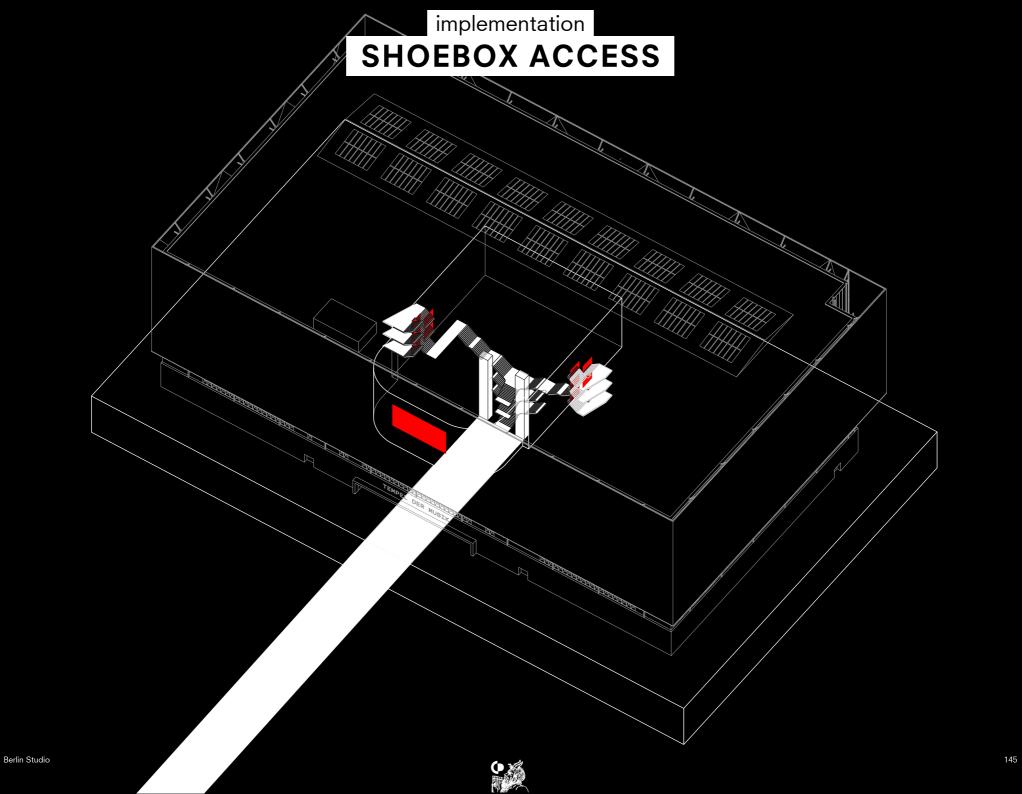
... TO AUDITORIUMS

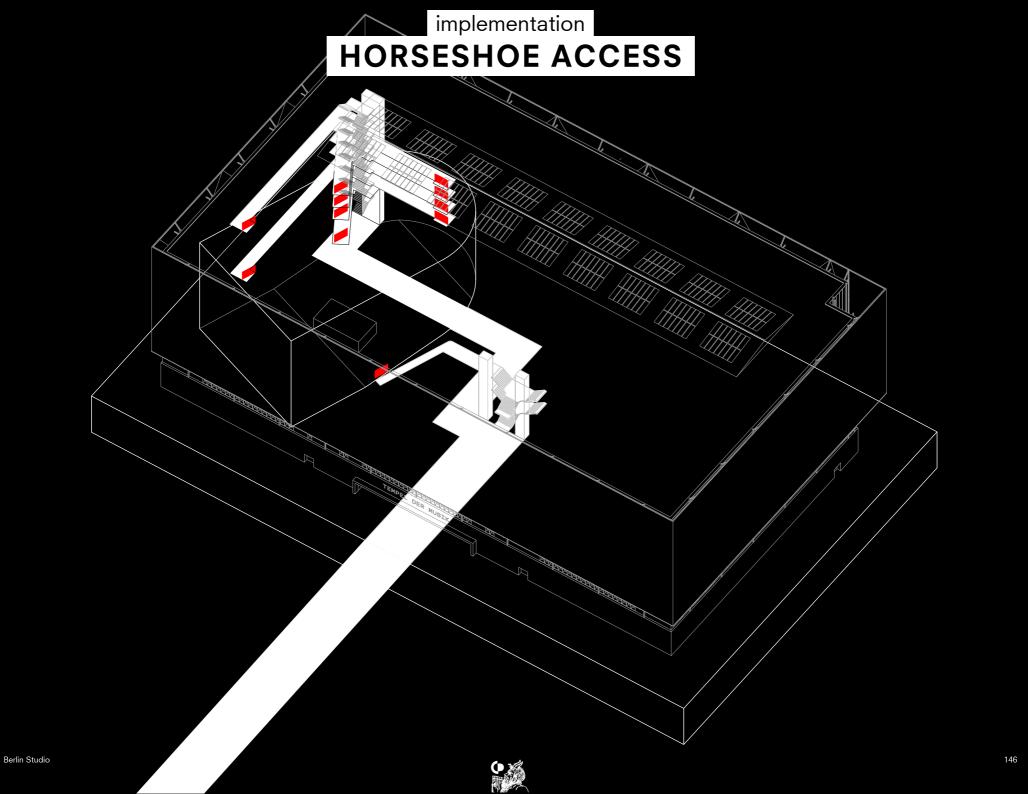




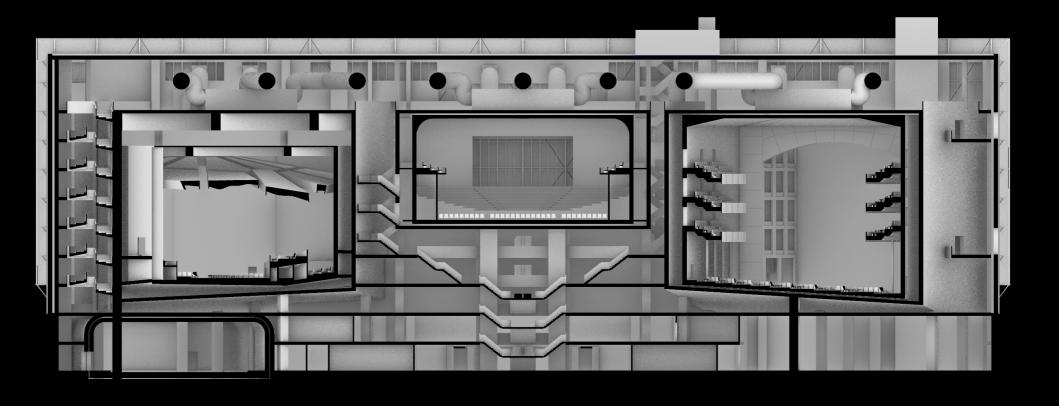






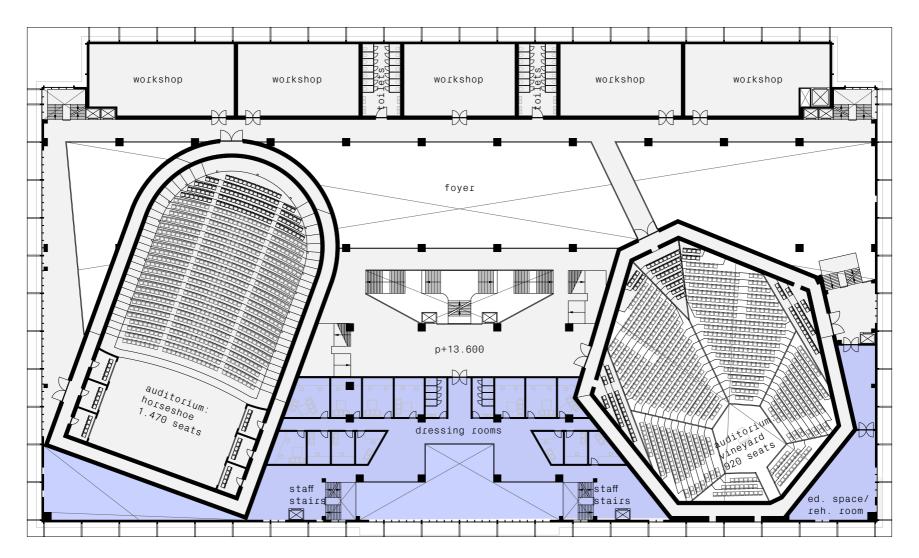


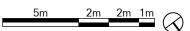
CONFIGURATION



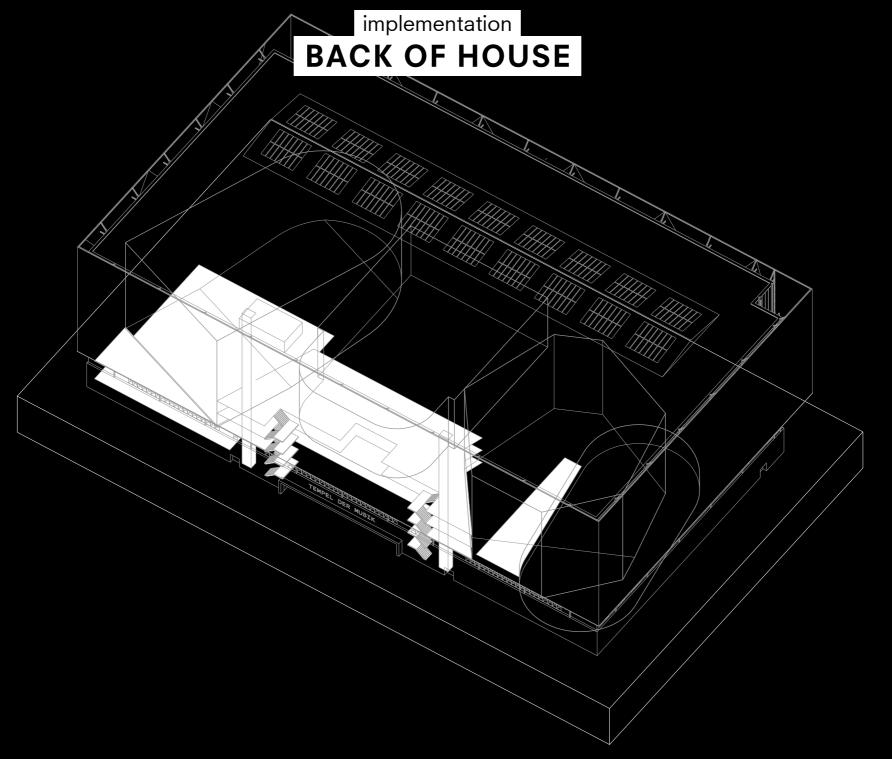


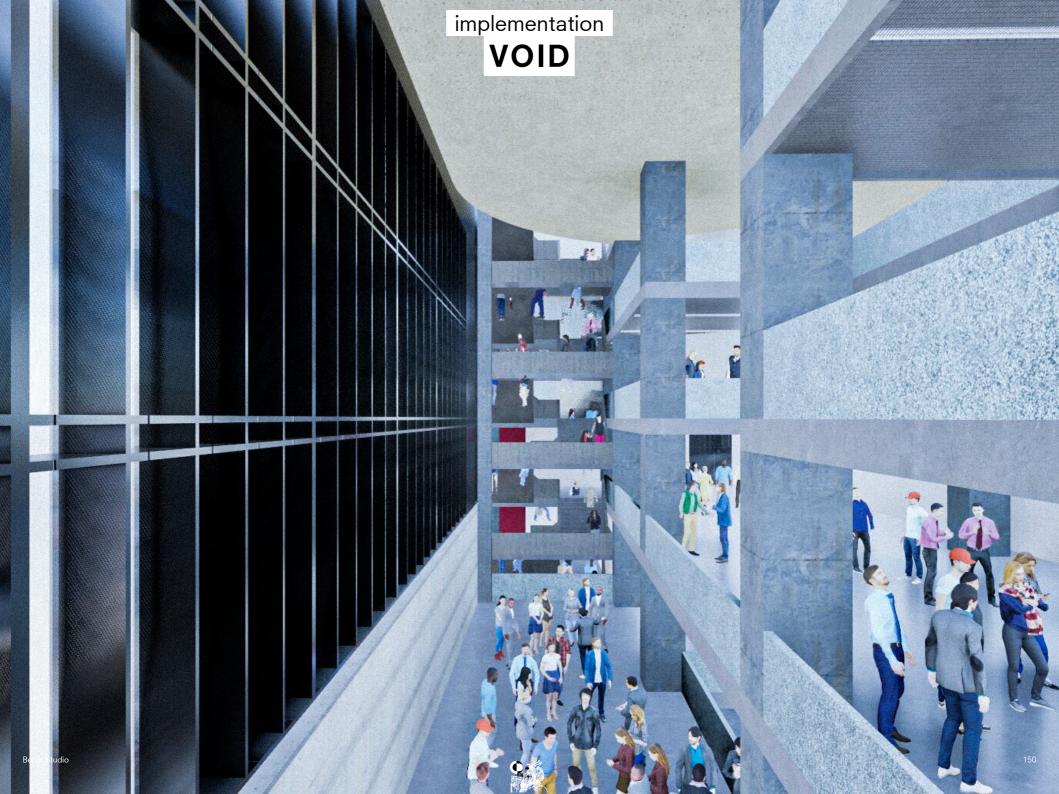
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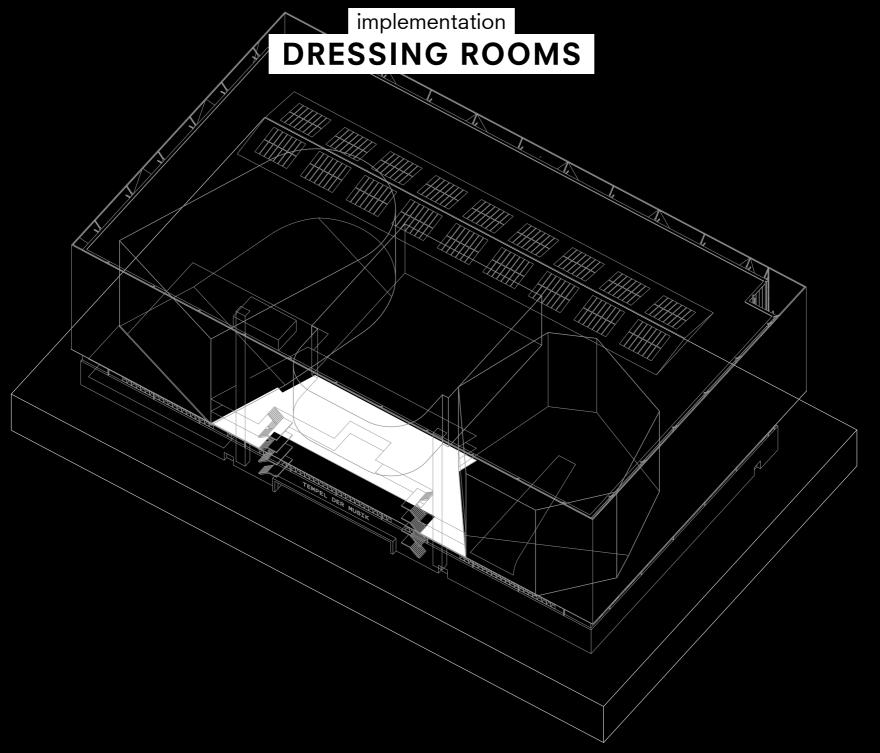




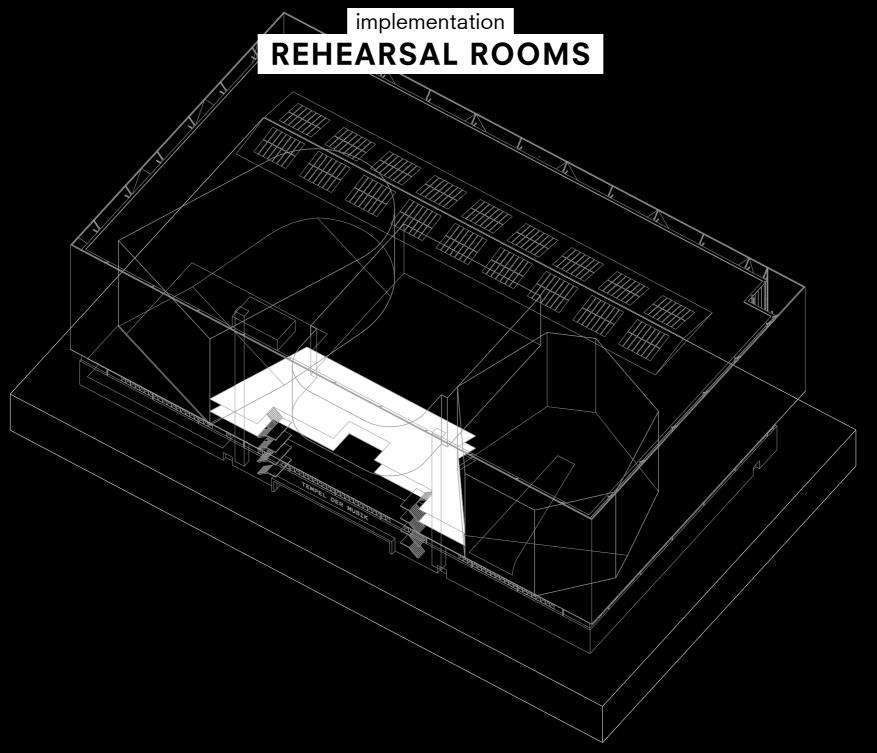




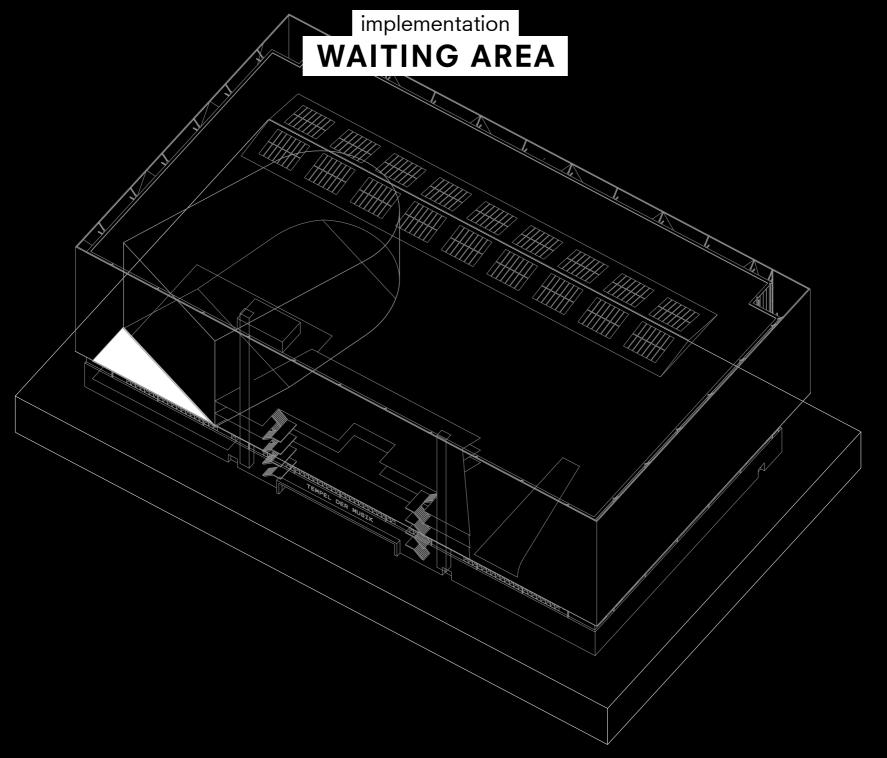




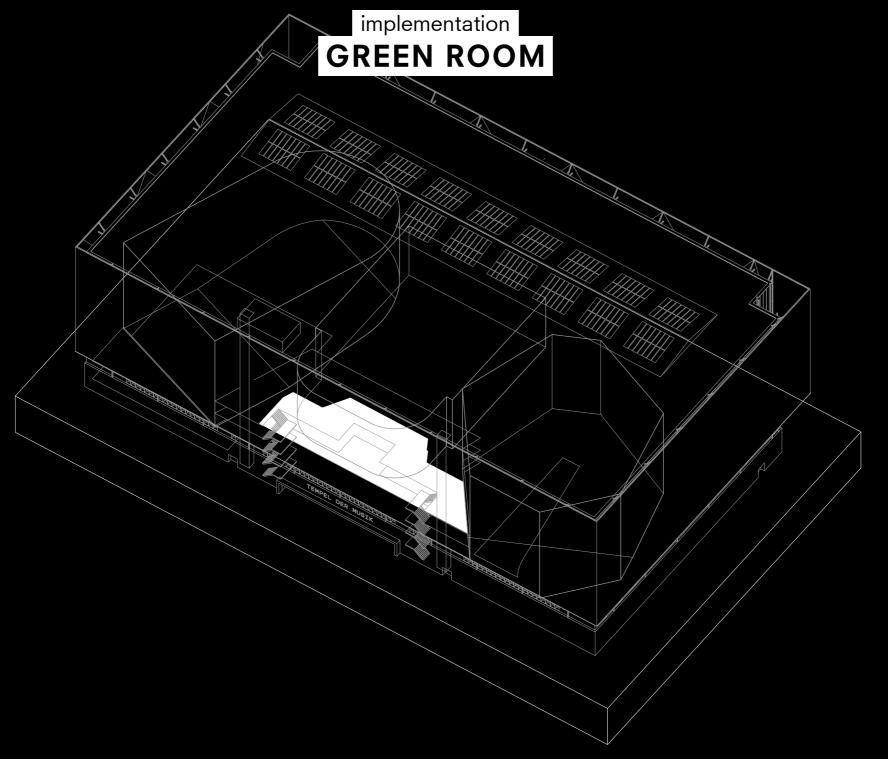






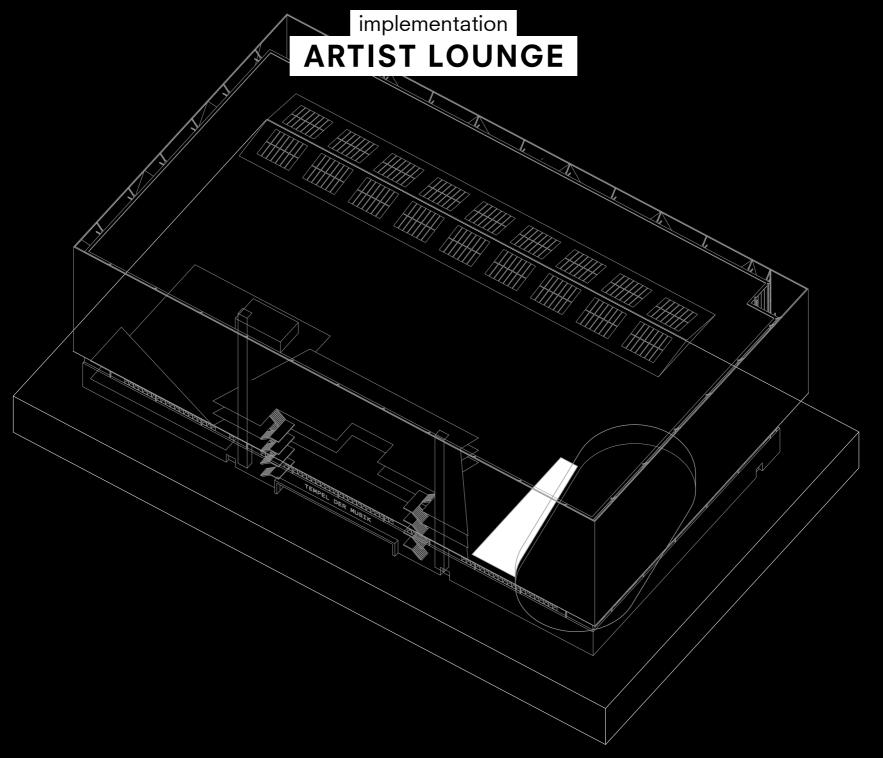








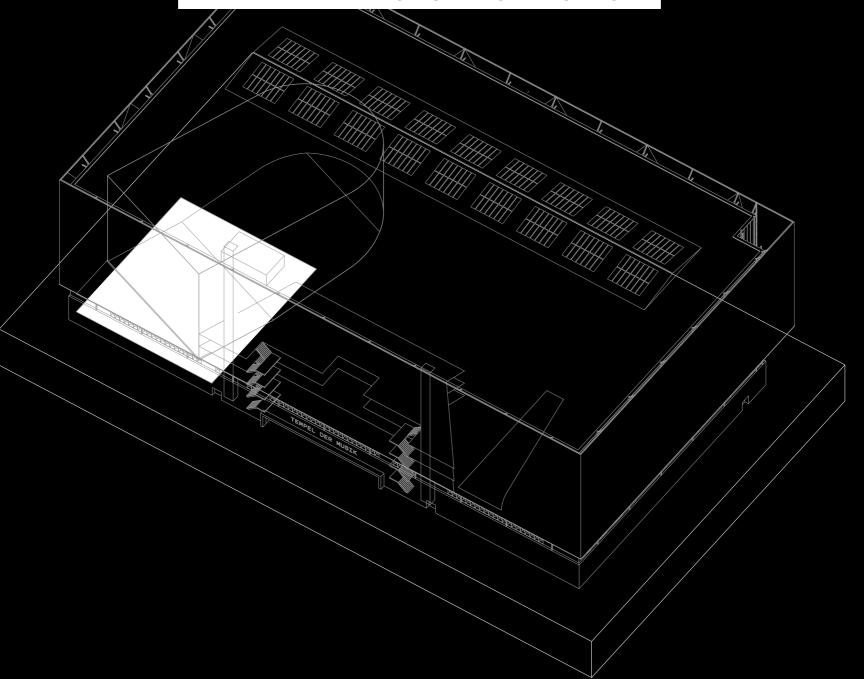




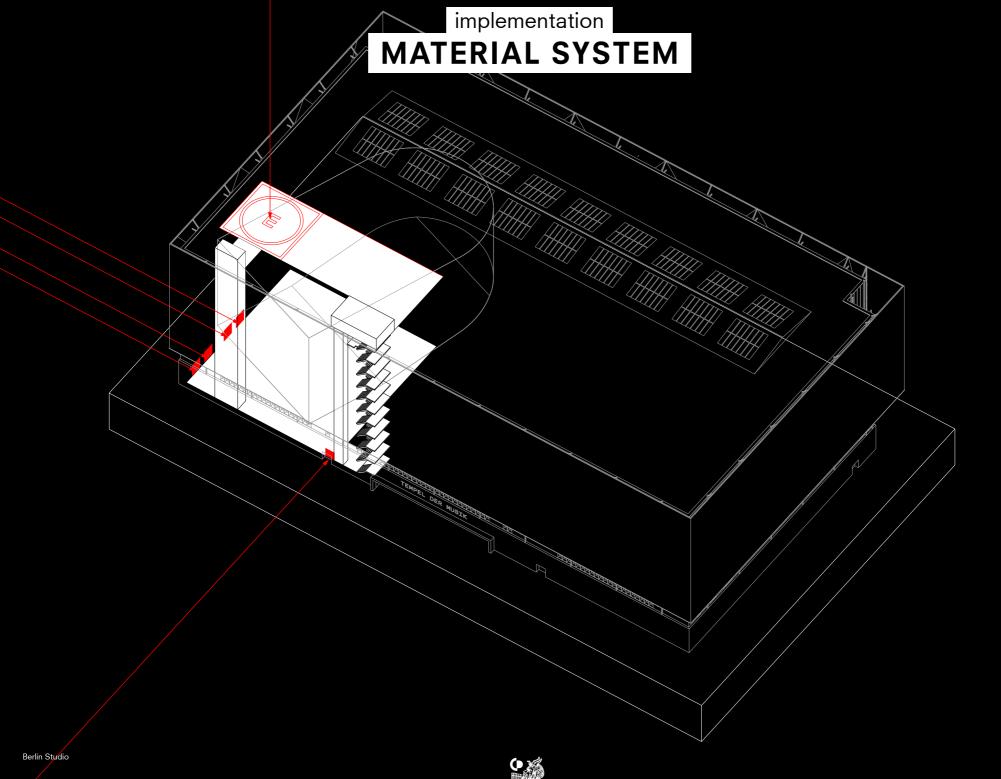


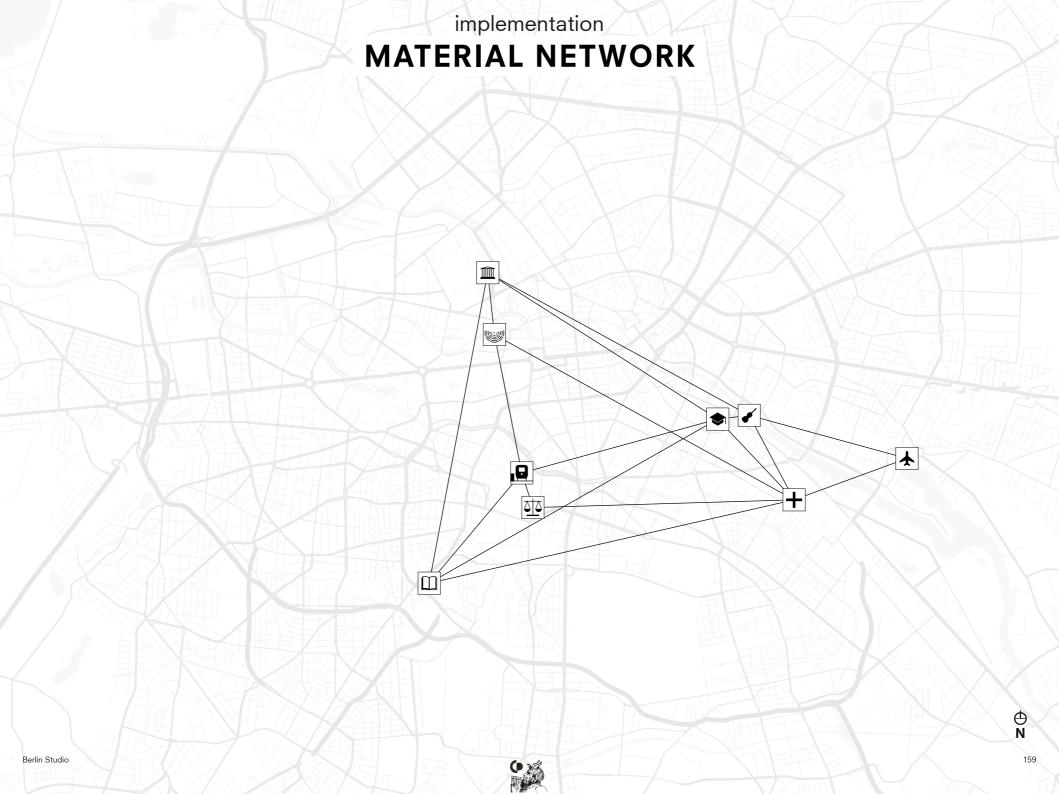


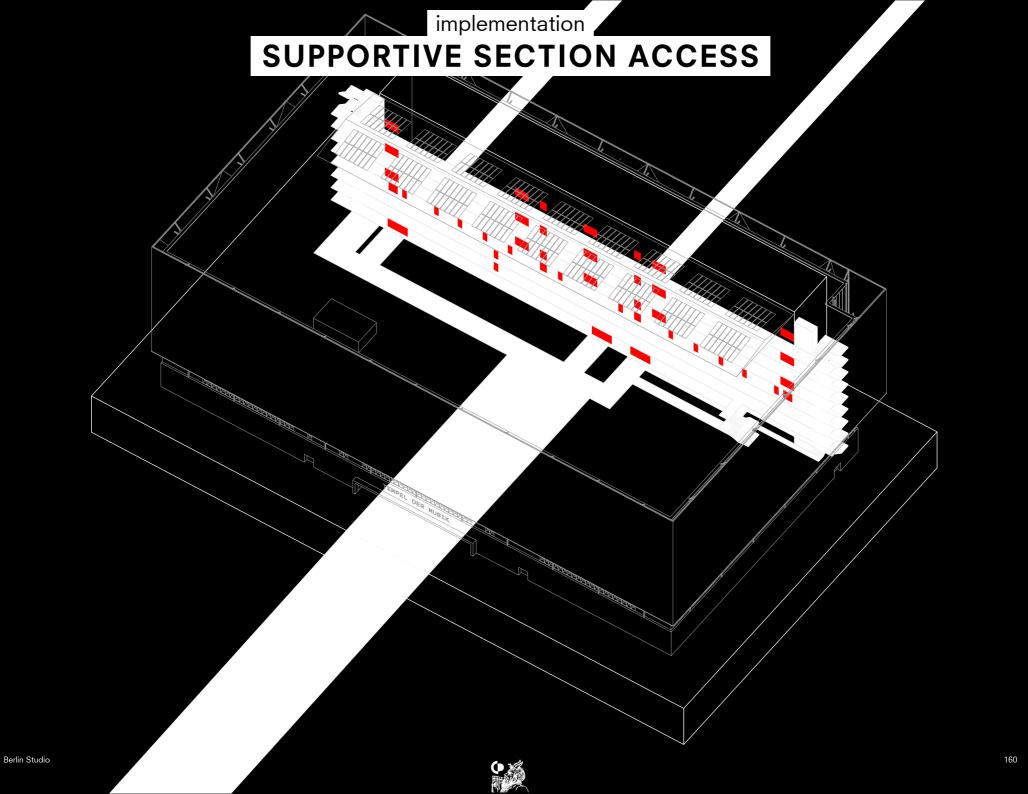
MATERIAL HUB/ WORKSHOP



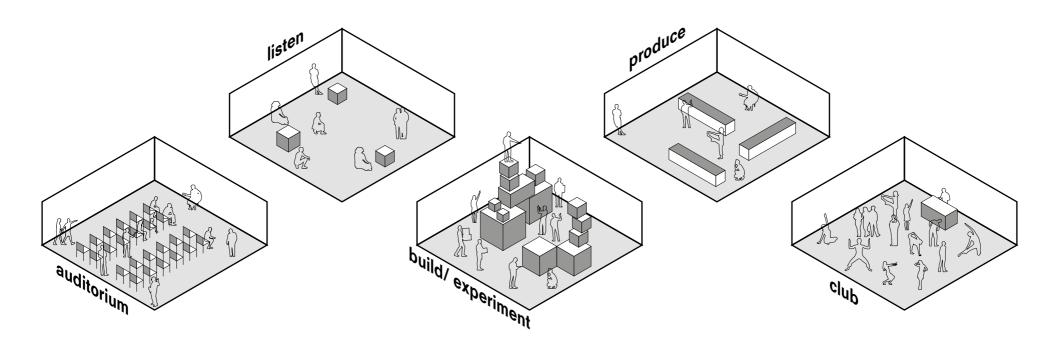


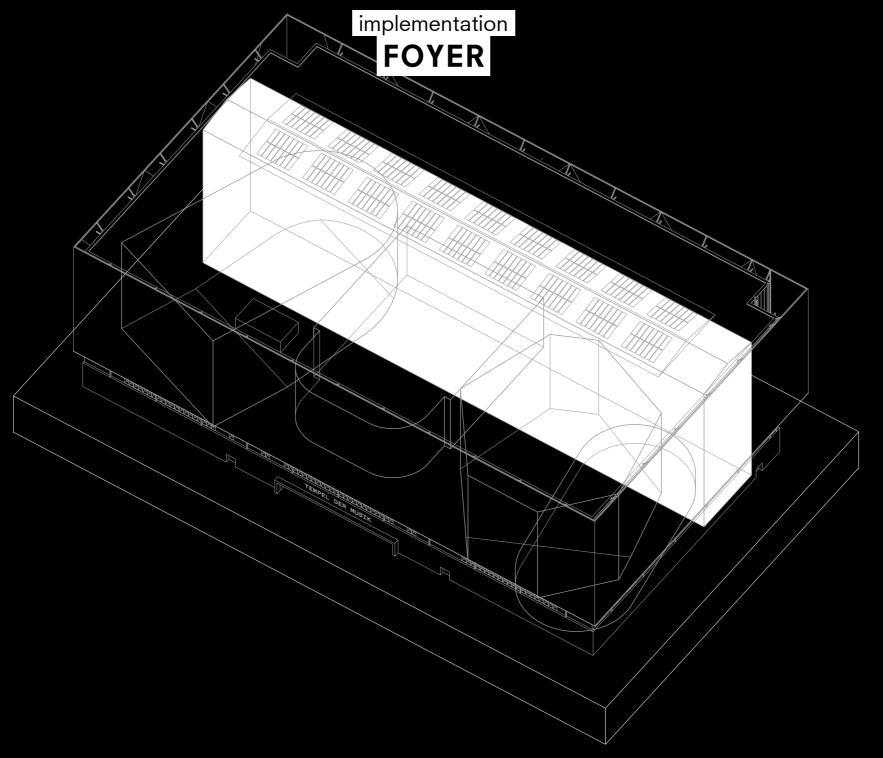




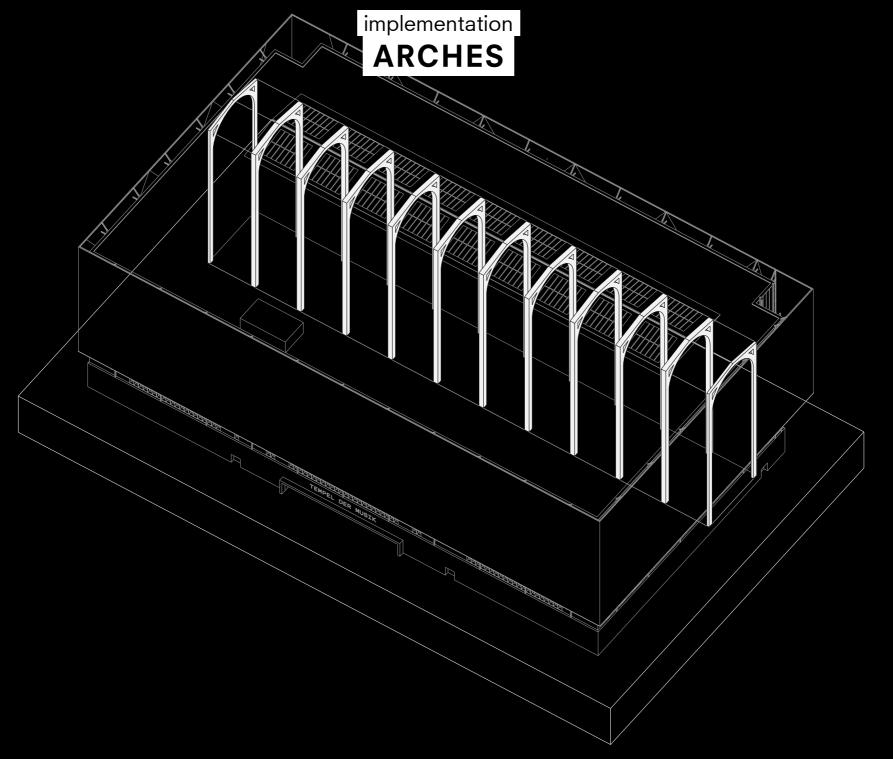


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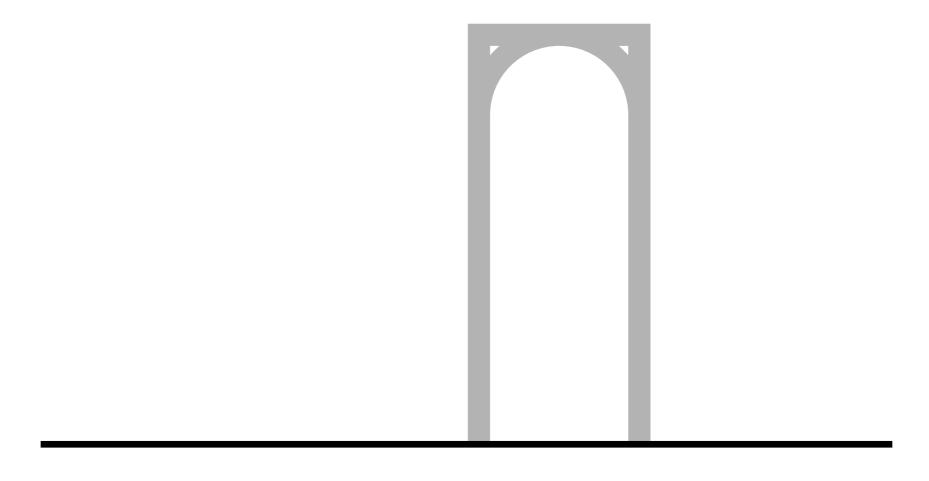




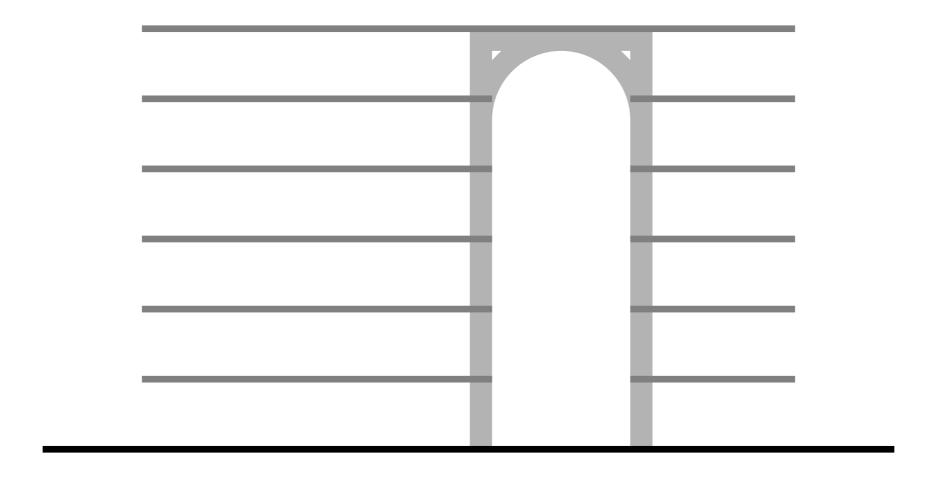




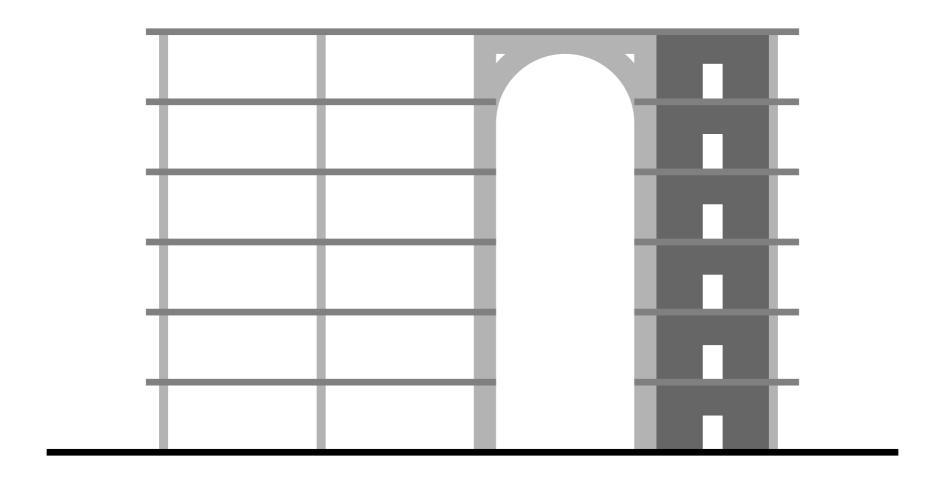
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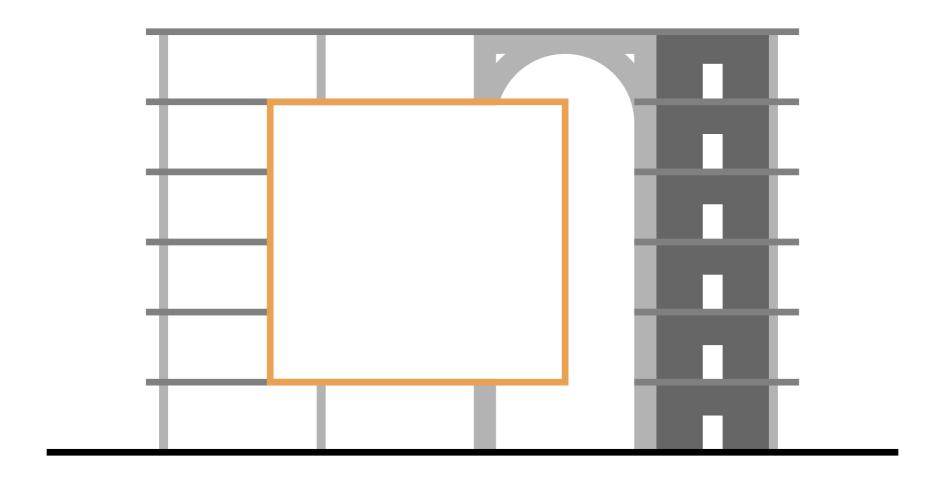
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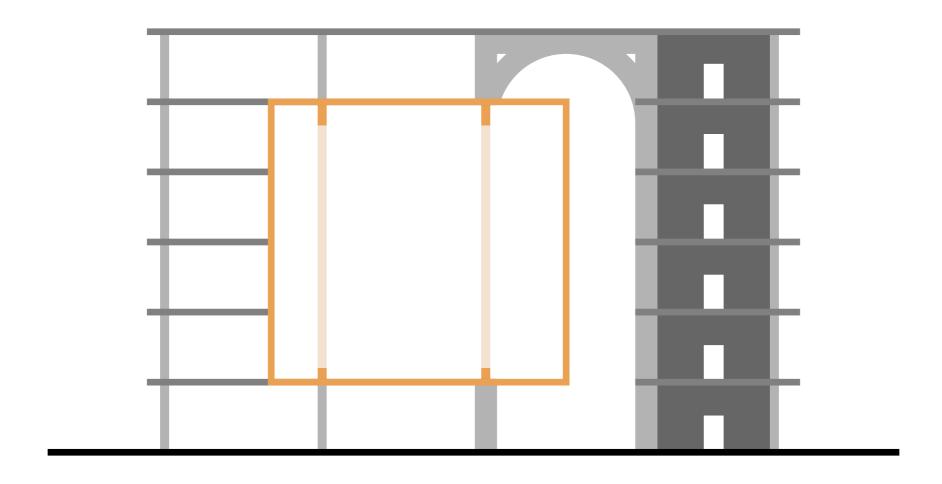
COLUMNS + WALLS



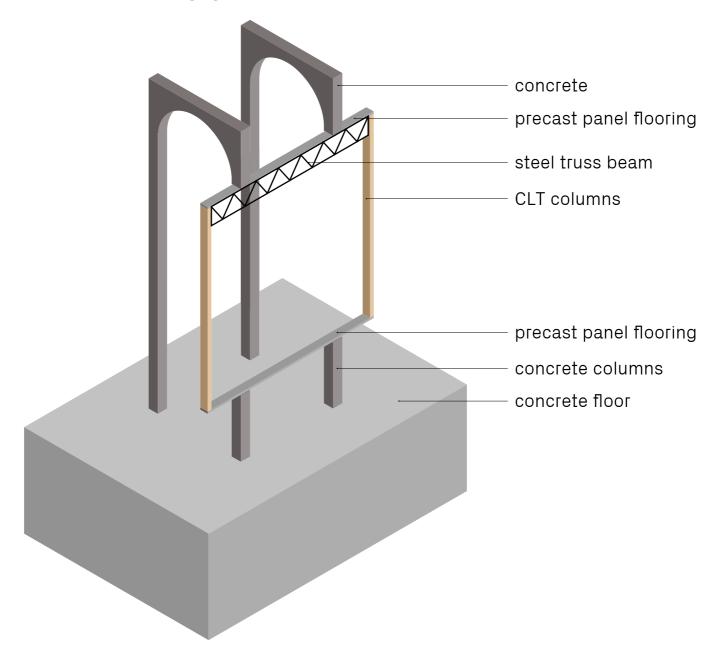
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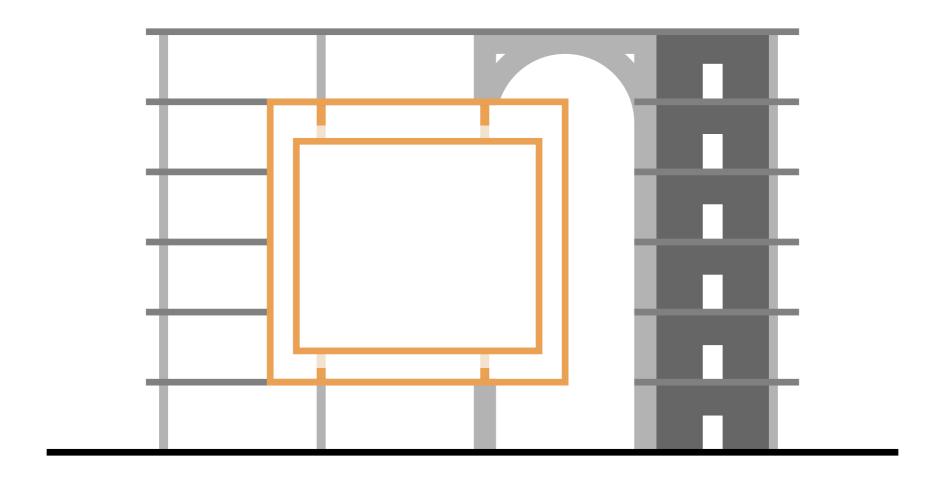
AUDITORIUM CONSTRUCTION



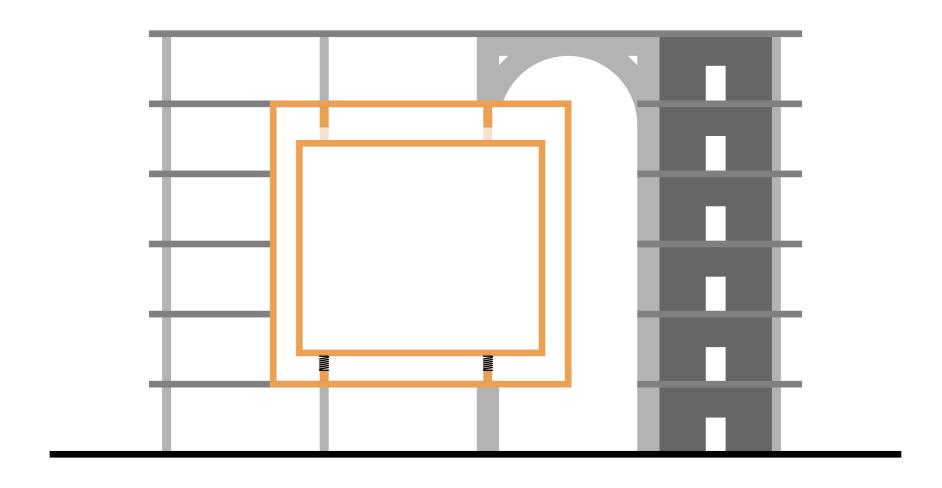
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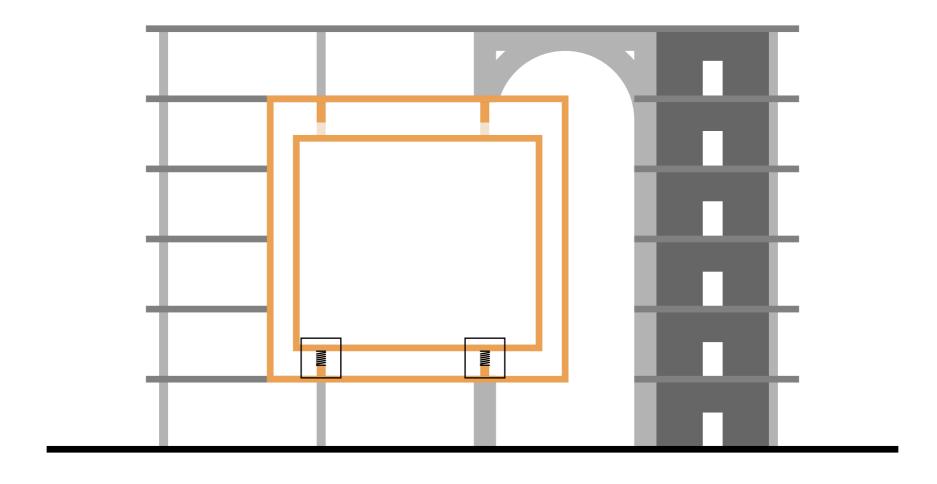
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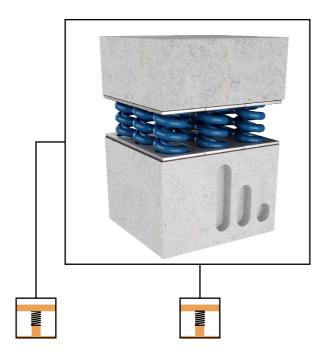
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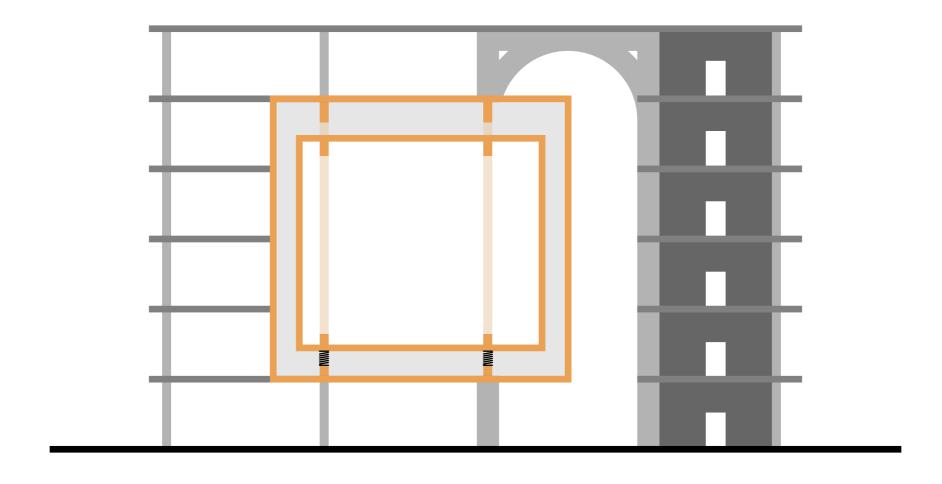
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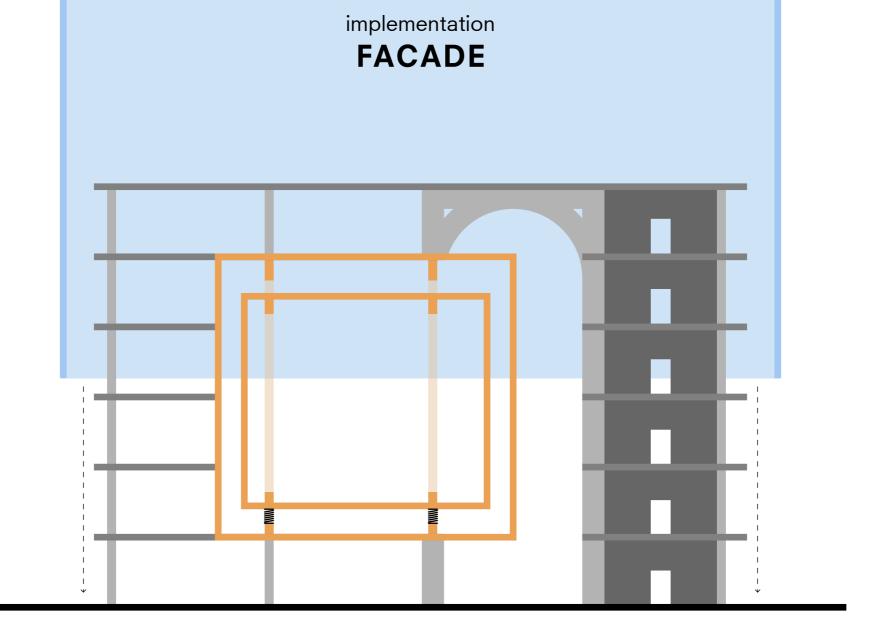


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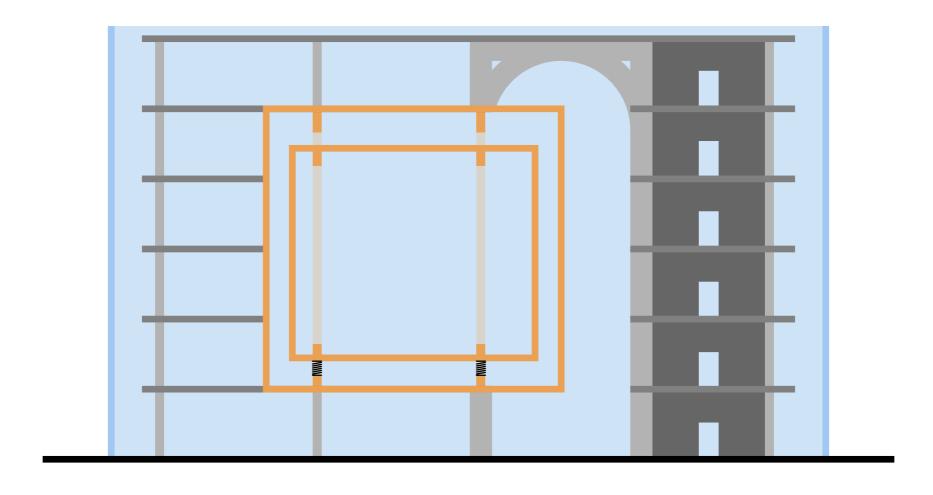
INNER SHELL CONSTRUCTION + CIRCULATION



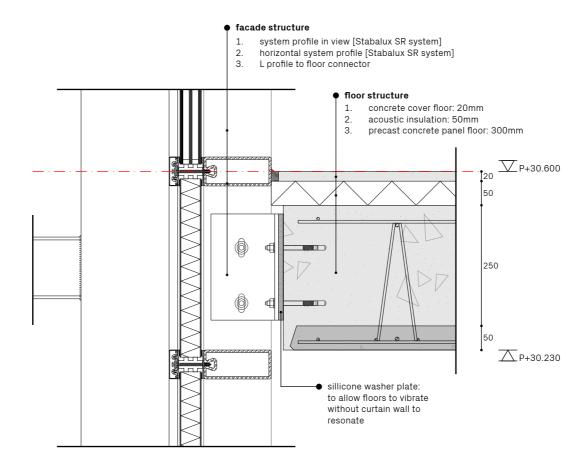




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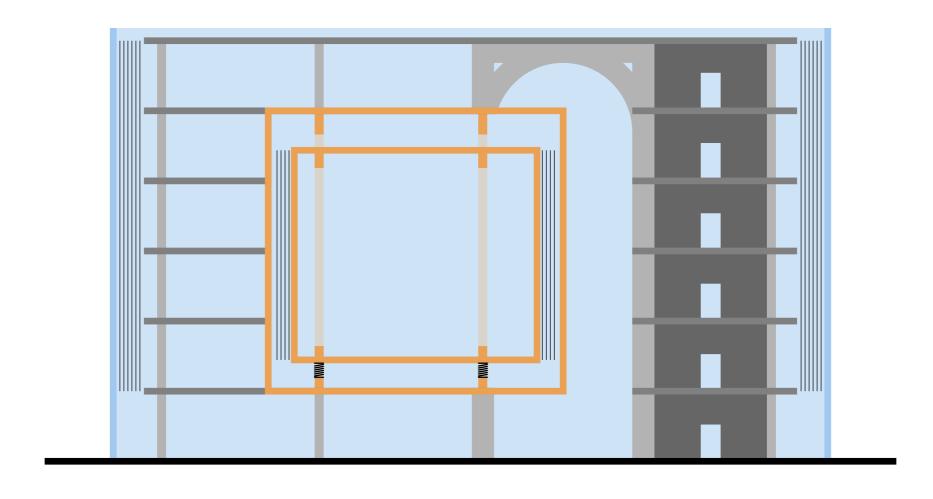
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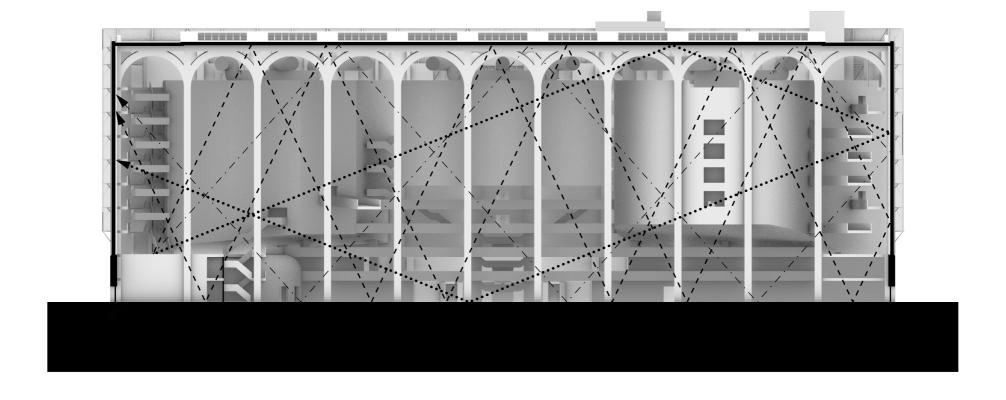




VIBRATIONS

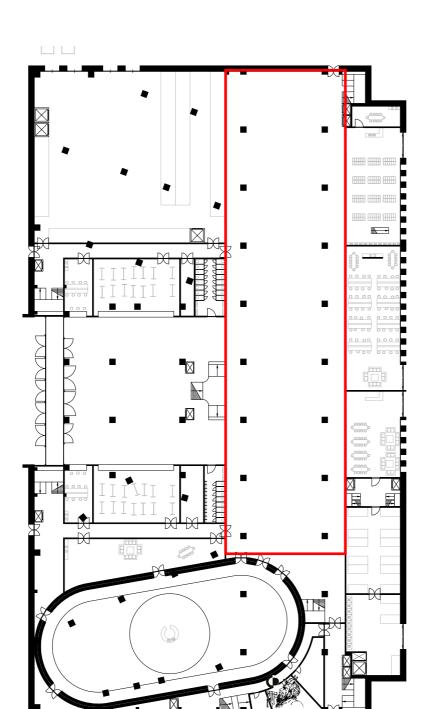


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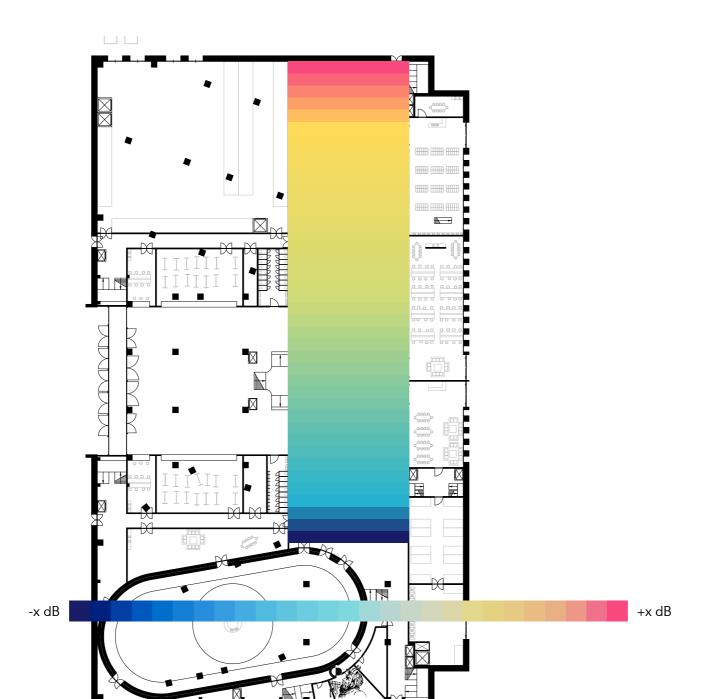




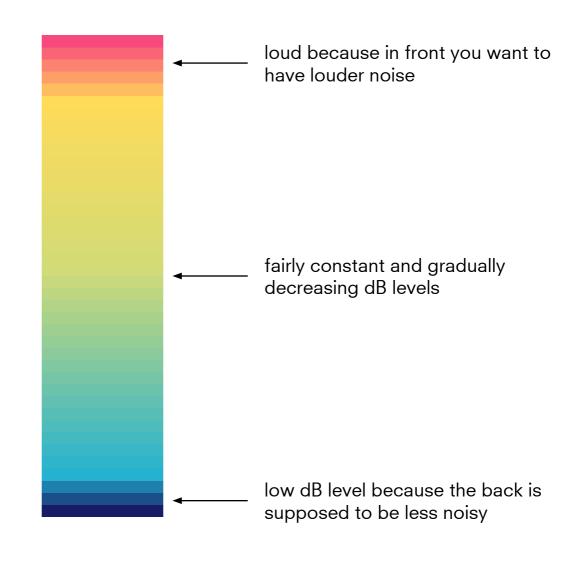
ORIENTATION



IDEAL SITUATION HEAT MAP

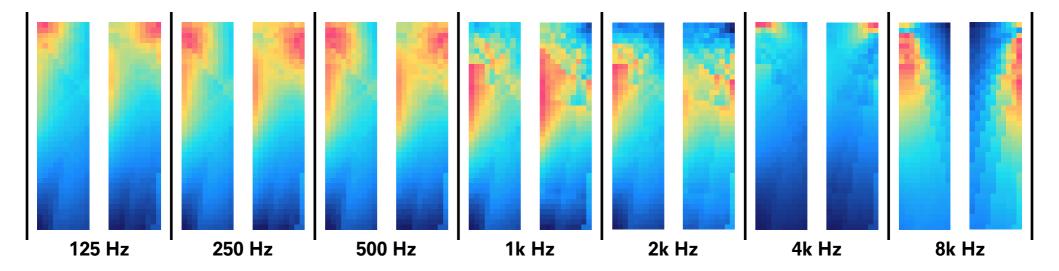


IDEAL SITUATION HEAT MAP



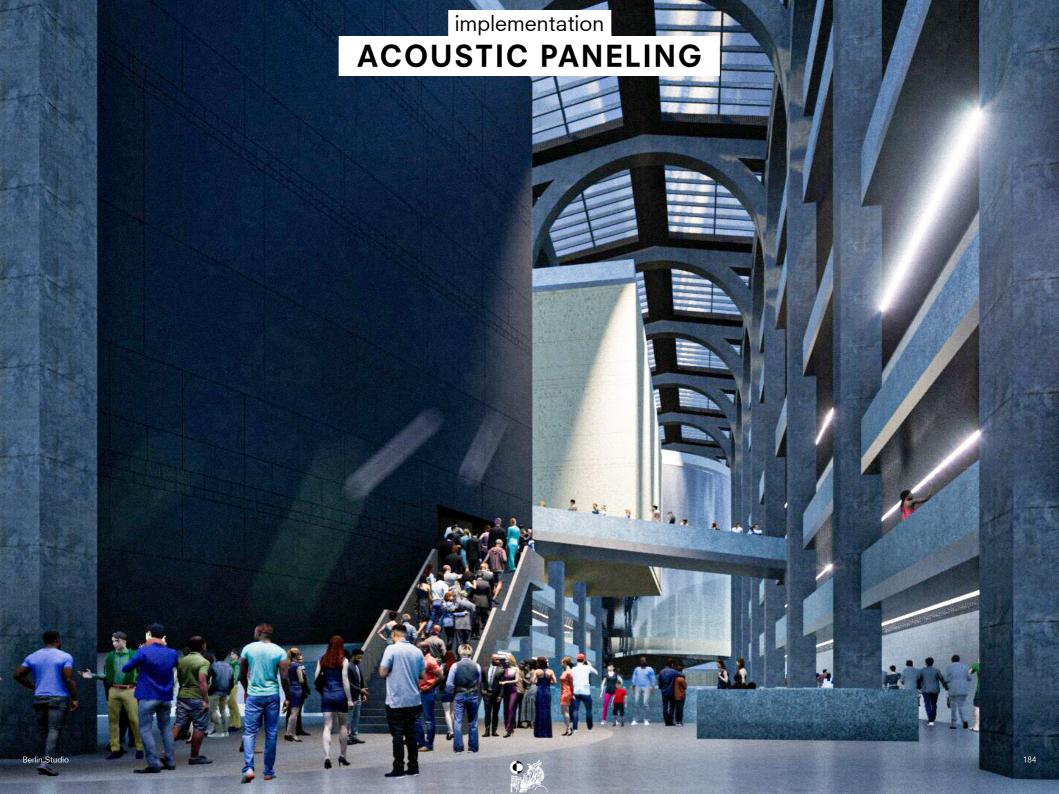


SIMULATION HEAT MAPS

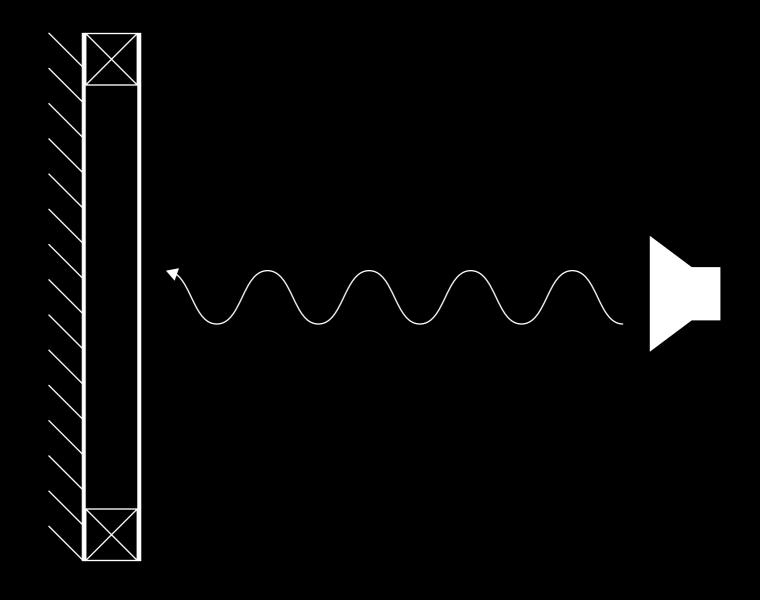




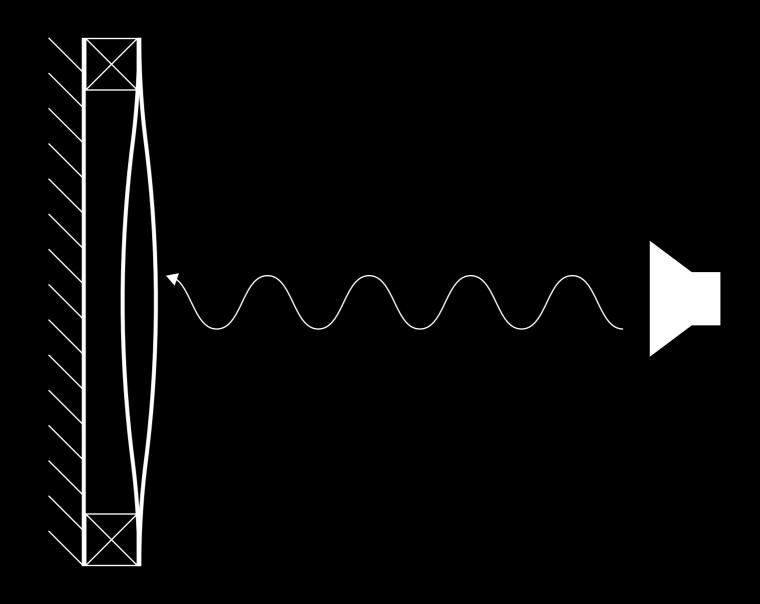




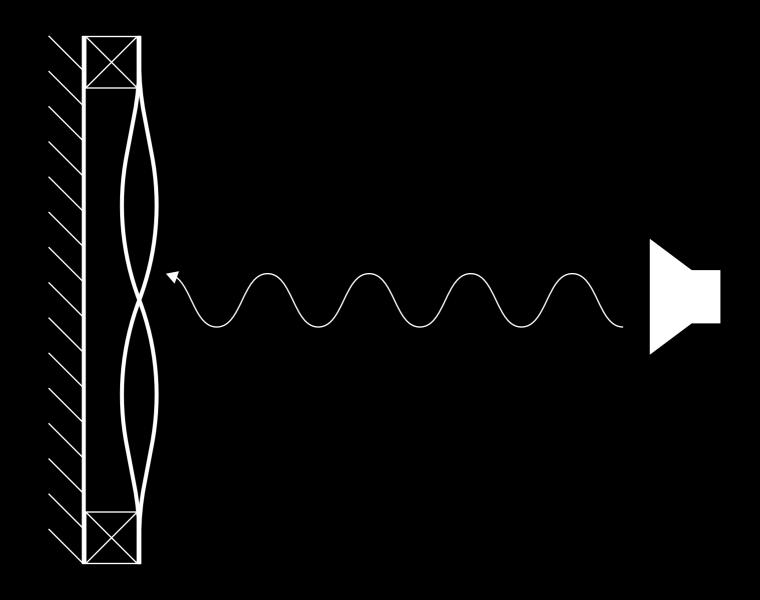
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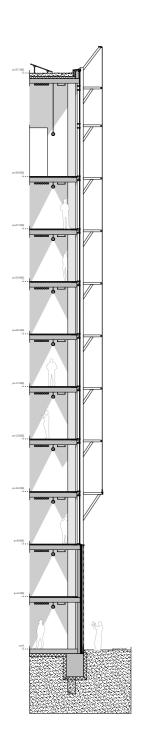
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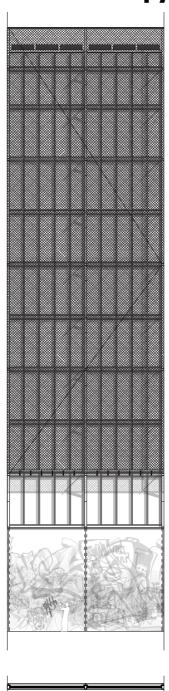


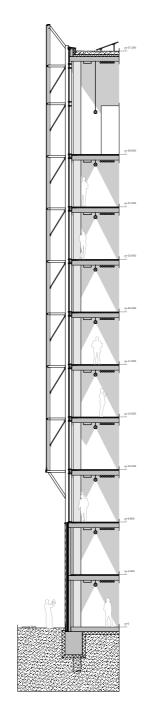
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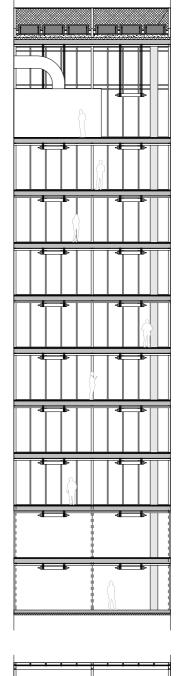


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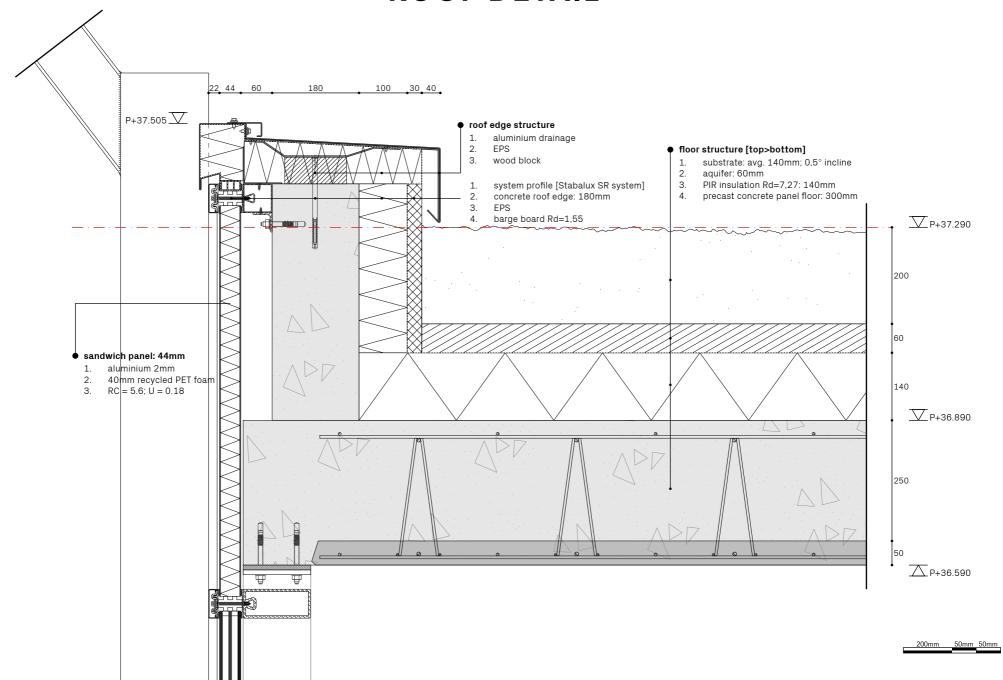




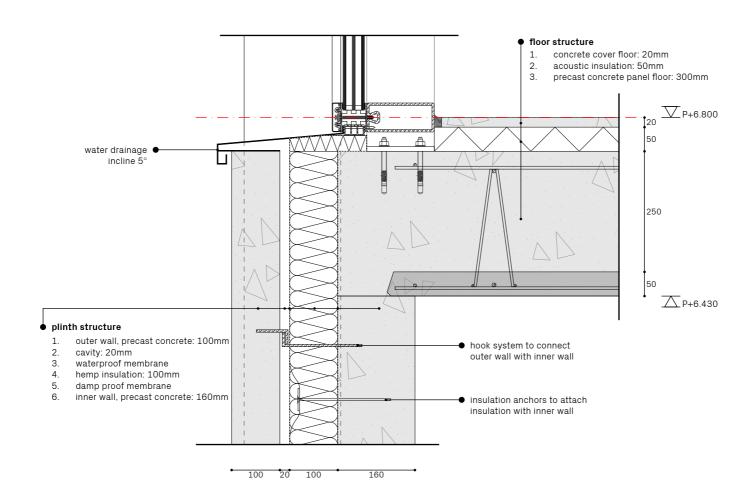




ROOF DETAIL



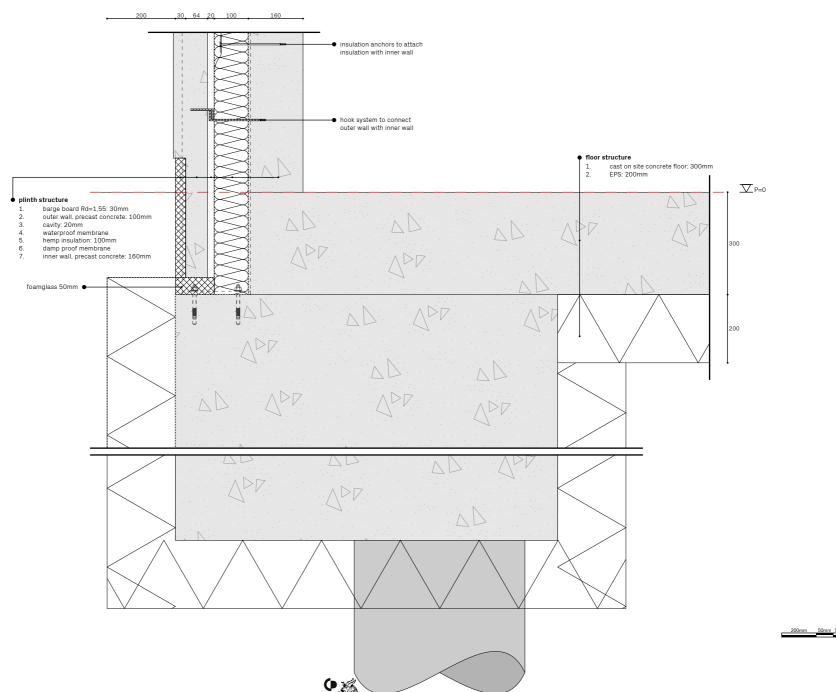
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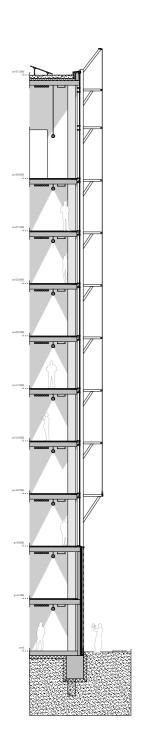


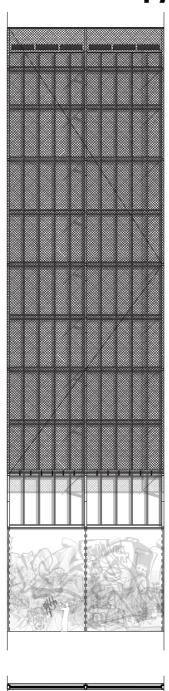


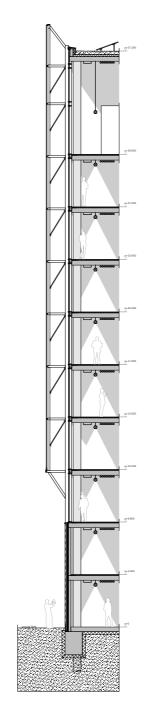
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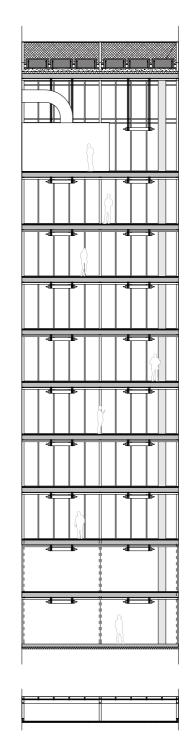


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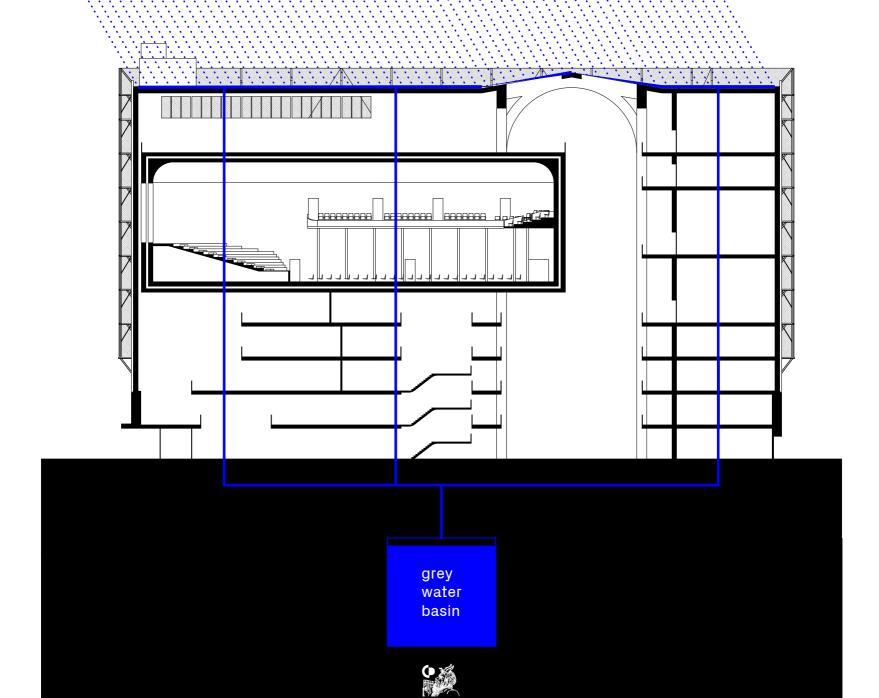




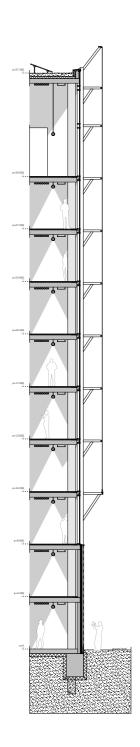


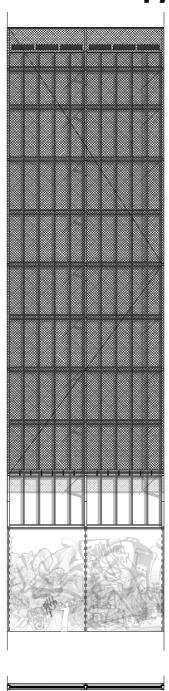


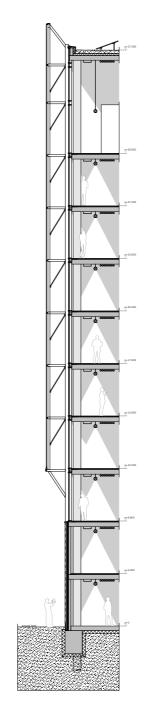
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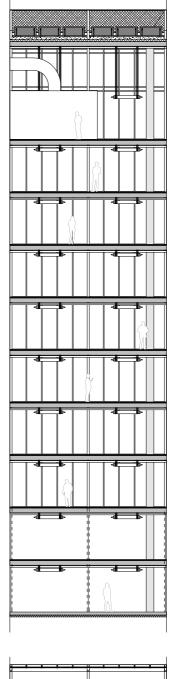


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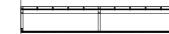








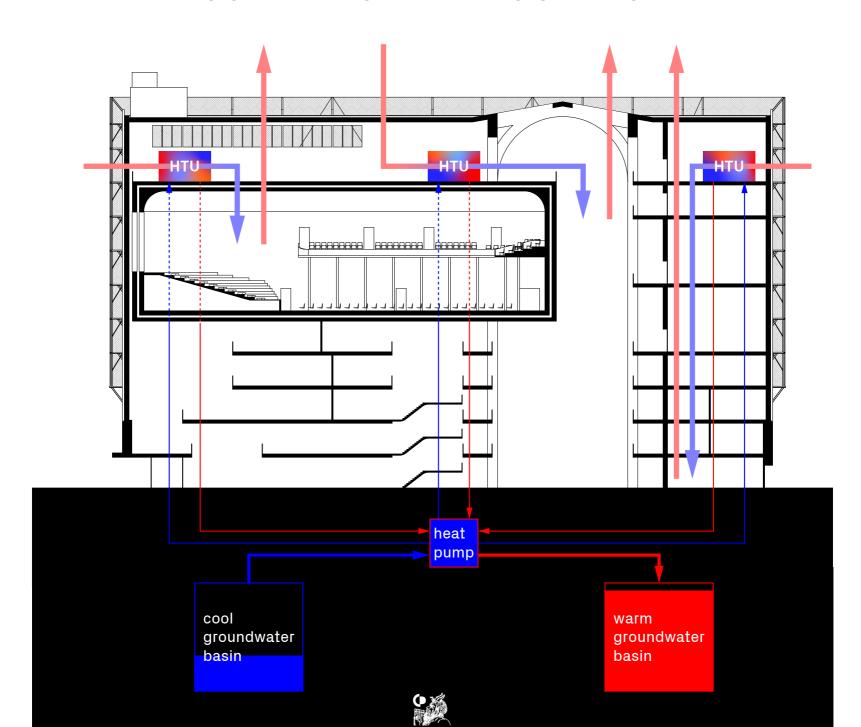




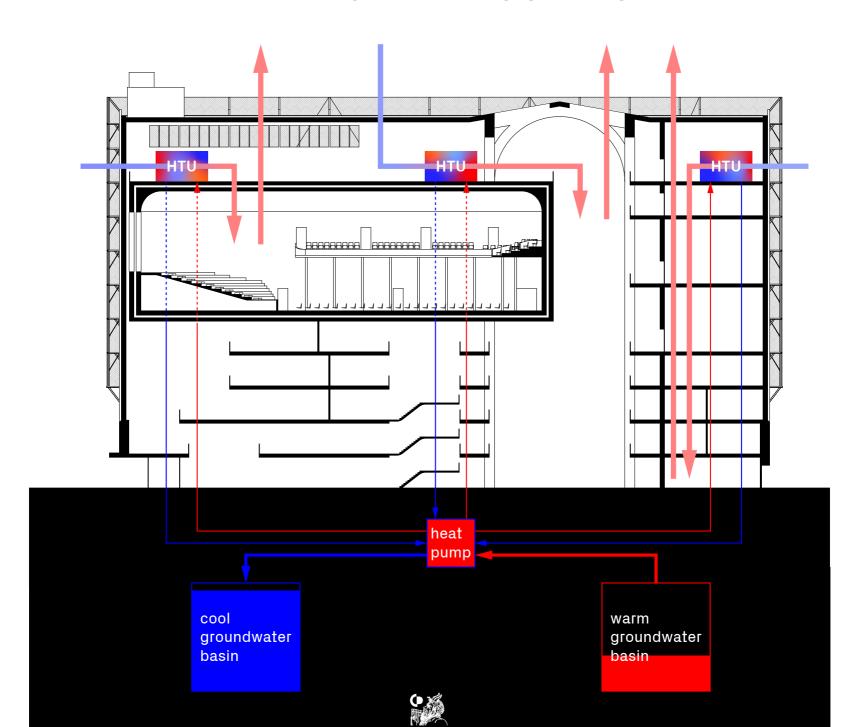




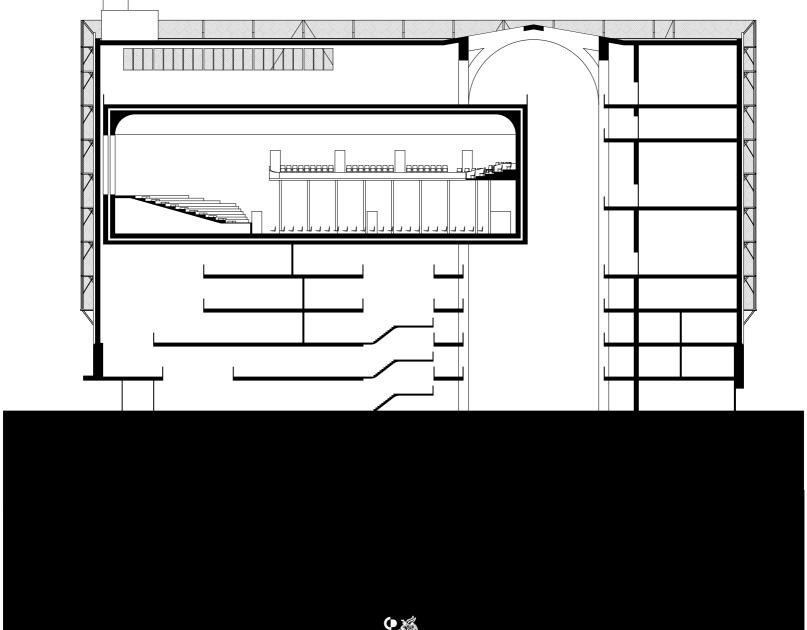
SUMMER CLIMATE CONTROL



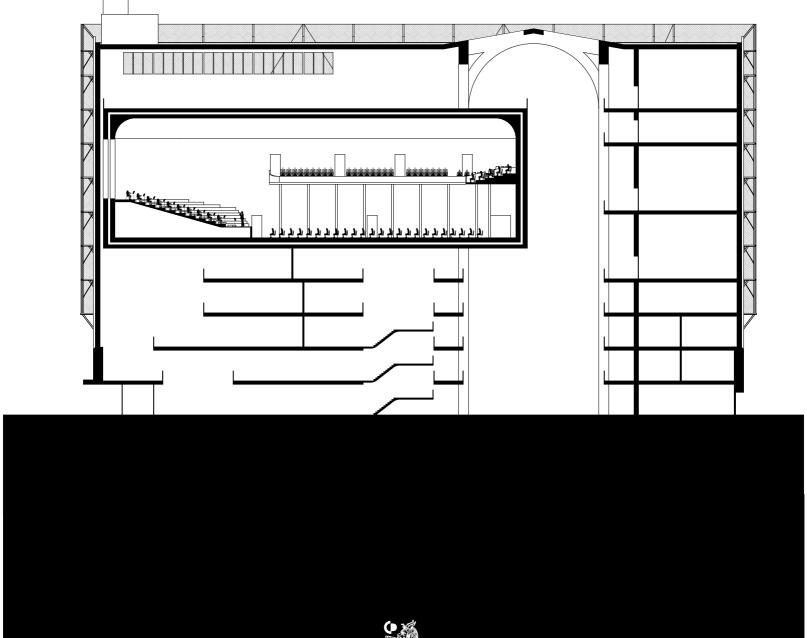
WINTER CLIMATE CONTROL



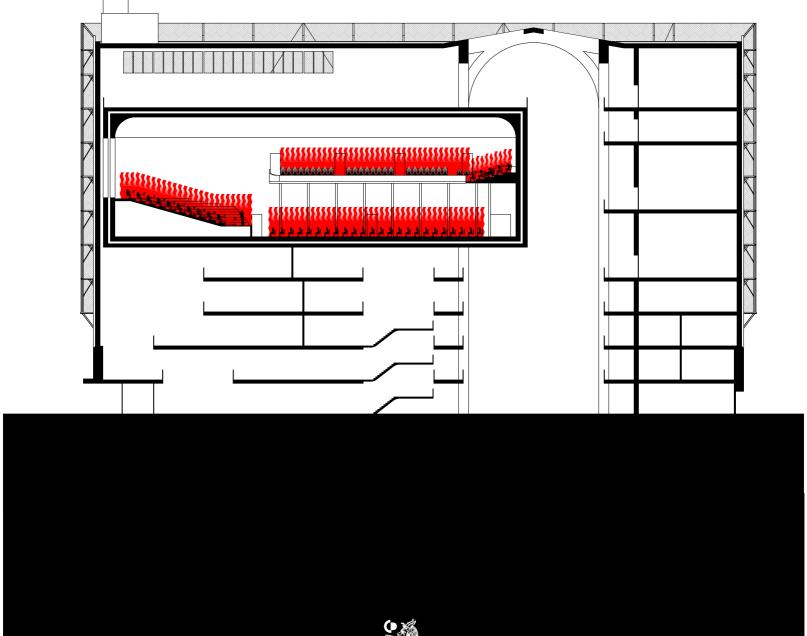
SECTION



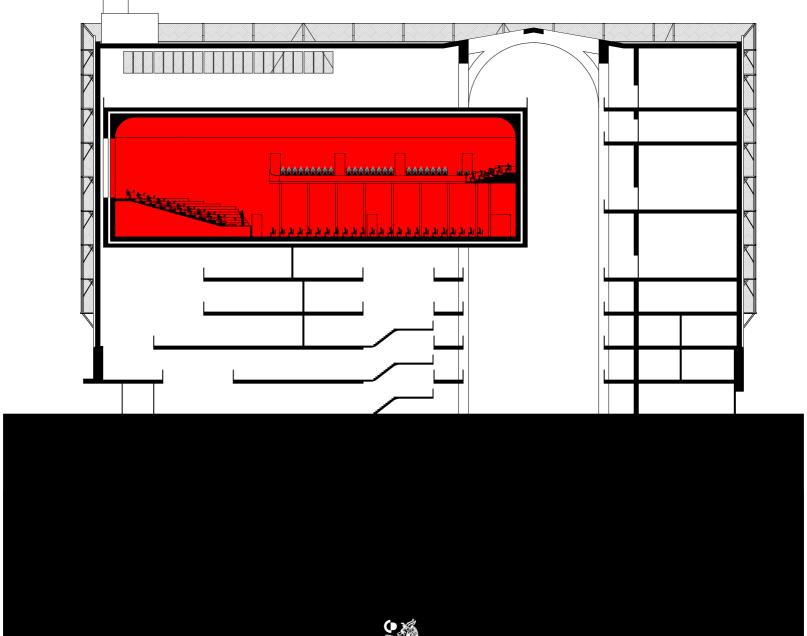
FULL AUDITORIUMS



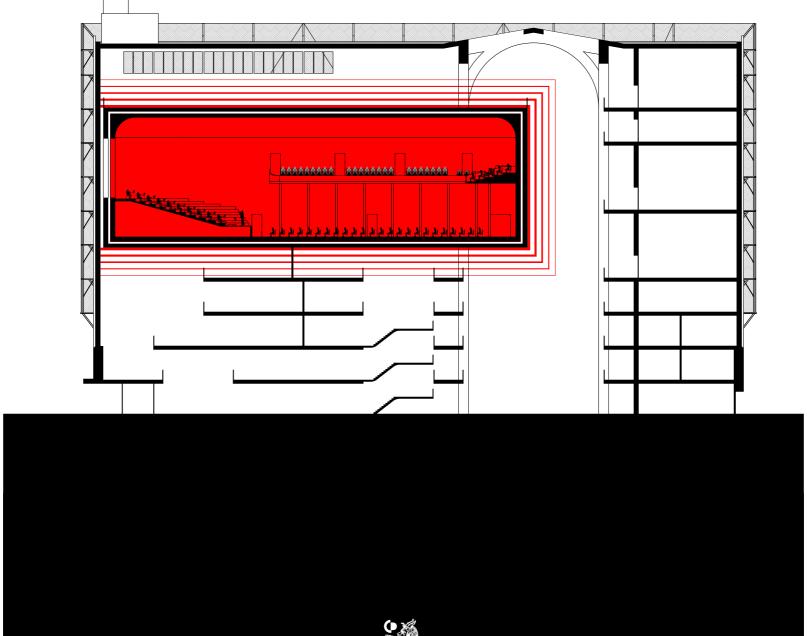
PEOPLE = HOT



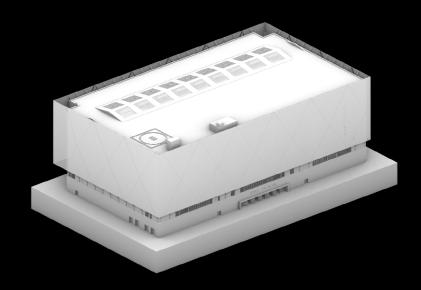
ENTIRE SPACE = HOT



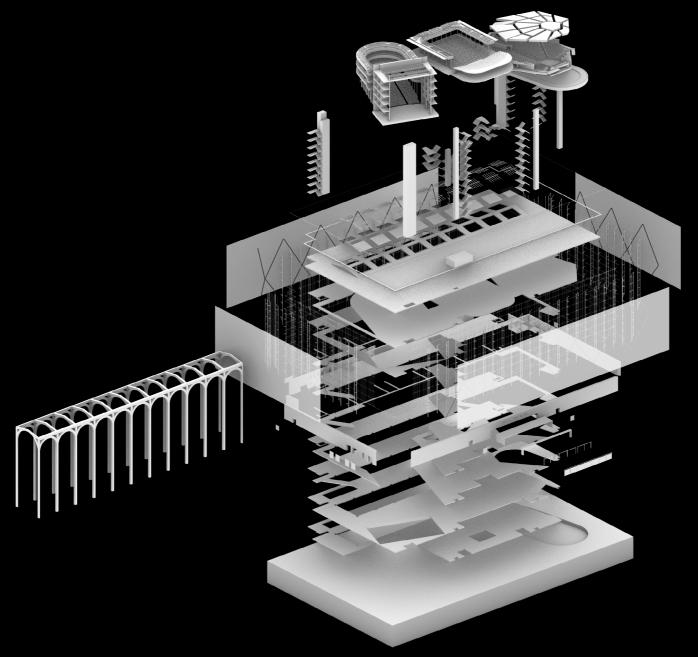
HEAT RADIATES



implementation MATERIAL INDEX



implementation MATERIAL INDEX



INITIAL SCORE

GFA	35.000m ²
average floor height	3m
building volume	25.000m ³
footprint	6.800m ²
FSI	5.15

layers	elements	type [atlas]	atlas score	coefficient	volume [m³]	percentage	material credit
foundation	foundation	concrete	24	0,79	2.623	11,4%	9
construction	columns	concrete	24	0,79	1.840	8,0%	6
	floors	concrete	24	0,79	11.685	50,8%	40
facade	glass	glass	74	0,35	84	0,4%	0
	window frames	steel	24	0,79	34	0,2%	0
	ex. cladding	aluminium	10	0,91	15	0,1%	0
	insulation	PIR	7	0,94	292	1,3%	1
	in. cladding	aluminium	10	0,91	15	0,1%	0
	гооf	bitumen	4	0,96	2.651	11,5%	11
interior	walls	concrete	24	0,79	3550	15,4%	12
	doorframes	steel	24	0,79	2	0,0%	0
	balustrade	steel	24	0,79	208	0,9%	1
total					22.998	100,0%	80
benchmark					40		

POTENTIAL IMPROVEMENT

GFA	35.000m ²
average floor height	3m
building volume	25.000m ³
footprint	6.800m ²
FSI	5.15

layers	elements	type [atlas]	atlas score	coefficient	volume [m³]	percentage	material credit
foundation	foundation	concrete	24	0,79	2.623	11,4%	9
construction	columns	concrete	24	0,79	1.840	8,0%	6
	floors	concrete	24	0,79	11.685	50,8%	40
facade	glass	glass	74	0,35	84	0,4%	0
	window frames	steel	24	0,79	34	0,2%	0
	ex. cladding	aluminium	10	0,91	15	0,1%	0
	insulation	PIR	7	0,94	292	1,3%	1
	in. cladding	aluminium	10	0,91	15	0,1%	0
	гооf	bitumen	4	0,96	2.651	11,5%	11
interior	walls	concrete	24	0,79	3550	15,4%	12
	doorframes	steel	24	0,79	2	0,0%	0
	balustrade	steel	24	0,79	208	0,9%	1
total					22.998	100,0%	80
benchmark					40		

IMPROVED SCORE

GFA	35.000m ²
average floor height	3m
building volume	25.000m ³
footprint	6.800m ²
FSI	5.15

layers	elements	type [atlas]	atlas score	coefficient	volume [m³]	percentage	material credit
foundation	foundation	reclaimed concrete	71	0,37	2.623	11,4%	4
construction	columns	concrete	24	0,79	1.840	8,0%	6
	floors	reclaimed concrete	71	0,37	11.685	50,8%	19
facade	glass	glass	74	0,35	84	0,4%	0
	window frames	steel	24	0,79	34	0,2%	0
	ex. cladding	reclaimed aluminium	75	0,34	15	0,1%	0
	insulation	hemp	69	0,39	292	1,3%	0
	in. cladding	reclaimed aluminium	75	0,34	15	0,1%	0
	roof	organic soil	52	0,54	2.651	11,5%	6
interior	walls	reclaimed concrete	71	0,37	3550	15,4%	6
	doorframes	steel	24	0,79	2	0,0%	0
	balustrade	steel	24	0,79	208	0,9%	1
total					22.998	100,0%	42
benchmark					40		

implementation **FUTURE USE**

"The most sustainable building is the one you don't build"



URGENT

(LeJarde 2023

Berlin club Re:mise announces closing parties

Between November 16th and 20th, the venue will host Stella Zekri, Esther Dune and many more.

Arielle Lana LeJarde, 5 november 2023

Remise in Berlin has revealed its final events

With the closure of another club space the scene that revived Berlin is being l

The dance community helped reunify East and West German 1990s, but gentrification is slowly killing it

Michael Scaturro, 15 march 2020

I was in bed when my friend Alfonso called me. "It's the last party at Griessmuehle," he had Cooked the Thomas an arms alather We're pains."

Popular Berlin nightclubs face "exthreat from controversial motorway expansion, say Clubcommission

The planned 17th stage of the A100 motorway would i venues such as ://about blank, Club OST, and Wilde R

Gemma Ross, 16 may 2023

A number of popular Berlin nightclubs could face closure if a proposed new twere to be given the green light, as the Bundesautobahn 100 looks to run thr in Mitte, Charlottenburg, Tempelhof and Neukölln.

The Bundesautobahn 100 (also known as the A100) is currently in its 16th st which has been underway since 2013 and is due to cost around €700 million looks to increase its "rine" around the city.

The nearing 17th stage, which will cost the city an estimated further €800 mil 21 cultural institutions if it were to run through Storkower Strasse in Ostl Berlin's Clubcommission.

Local politicians have given no concrete statement over whether the develop despite plans for the 17th stage having been proposed as far back as 1935, rept institutions in "limbo" — unable to secure guaranteed planning permission trisk of surging rent were the plans to be scrapped.

The extension has become a contentious issue among both local and natic left-leaning Alliance90 (or "The Greens") and the SPD oppose the expansion right-leaning parties such as the CDU, FDP and AfD are supportive of the 17th of the 17

Nightlife venues that stand to be impacted if the plans were to go ahead are OST, Salon Zur Wilden Renate, ELSE, OXI, and newly opened venue Club bar Zuckerzauber, skatepark E-LOK, independent cinema Zukunft, and cock Wolf could also face closure.

"In total, there are about 21 cultural venues that are in the area of this c construction, which is extremely threatening," Lutz Leichsenring of Berlin tells Mixmag.

"On the other hand, if they do decide not to build the autobahn, there is also real estate value will rise and landlords might aim for more profitable residential or office buildings. So in any case, if they build it or not, we ne vision for this area"

Leichsenring explains that another property across the Spree River is also

(Schmitz 2023)

Berlin's famed nightclubs, losing customers, face an uncertain future

Rob Schmitz, 3 november 2023

BERLIN — For those who haven't experienced it, a night at a club in Berlin can be reduced to a math equation whose first variable is the best club you've been to.

Griessmuchle: Berlin mourns the loss of yet another club

Ahead of the venue's final party this weekend, protesters, organisers, and activists reflect on its legacy and the future of the city's nightlife

(Bryant 2024)

january 2020

(Skinner 2022

in's iconic Berghain club rumoured to losing down

chno venue was founded in 2004

nner, 18 october 2022

berghain nightclub is rumoured to be permanently closing by the end of this year

dary establishment, which was founded in 2004, is one of the most famous club-

(Moen 2022

Berghain Might Be Closing for Good

Word on the street is that Berlin's infamous nightclub Berghain might be closing its doors for good by the end of this year.

Matt Moen, 18 october 2022

Speculation that the legendary nightlife institution might be shuttering at some point in the near future has been circulating since the club's in-house record label and booking agency, Ostgut Ton, abruptly closed earlier this month. According to several inside sources, the "world capital of echno" is set to close permanently by the end of 2022 almost two full decades after it first opened sections.

The Berghain is closing forever – the final end will come this year," one source said to Faze Magazine. "One of the founders has already been paid out and is said to be staying in the countryside in Brandenburg," another source told the German outlet. "The others simply 'don't feel like it' anymore and have other life plans in mind."

Apparently once the venue's current owners wash their hands of the place, there aren't any future plans for someone else to take over. "Continuing to exist as an art location does not appear to be an option. And so this chapter should finally be closed."

So far Berghain's current owners have yet to comment or release an official statement addressing the speculation. Berghain previously closed its doors in March 2020 during the onset of the COVID-19 andemic, operating as an art gallery while nightlife worldwide ground to a halt.

Before that, Berghain had been best known as one of the world's most exclusive club with a notoriously selective bouncer — who gained his own form of cult-like figure status in the process — that made getting let in a badge of pride for those select few (as Claire Danes once famously sushed about on Ellen back in the day)

Berlin's Famous Club Scene Faces the End of the Party

The closing of renowned clubs Watergate and Renate spells trouble for the city's nightlife.

Chris Bryant, 27 September 2024



Berlin is synonymous with unbridled hedonism, throbbing techno and intense parties that go on for days. But the fun will soon be over for two of the capital's most famous venues — Watergate and Wilde Renate — which are set to permanently close, in part due to rising costs.

Enterprising club promoters have long defied predictions of the techno scene's imminent demise—there's even a German word for it, "Clubsterben," or club death. But Berlin shouldn't ignore the plight of an industry that contributes around £1.5 billion (\$1.7 billion) annually to the local economy, is a magnet for young tourists, startups and creative types, and whose cultural significance was recently recognized by Unesco.

"I always thought Clubsterben was bullshit — clubs just adapted and moved to a new area — but it feels different this time. Watergate and Renate are big names," Jens Schwan, founder of Berlin music guide The Clubmap and co-founder of techno parade Zug der Liebe, told me. "The boom years are over. And after corona, many club misses the opportunity to reinvent themselves."

Berlin Studio

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THE TEMPLE OF MUSIC



THE TEMPLE OF RESIDENCES



THE TEMPLE OF UNIVERSITIES



THE TEMPLE OF MOVIES



THE TEMPLE OF SERVERS

contents

INTRODUCTION

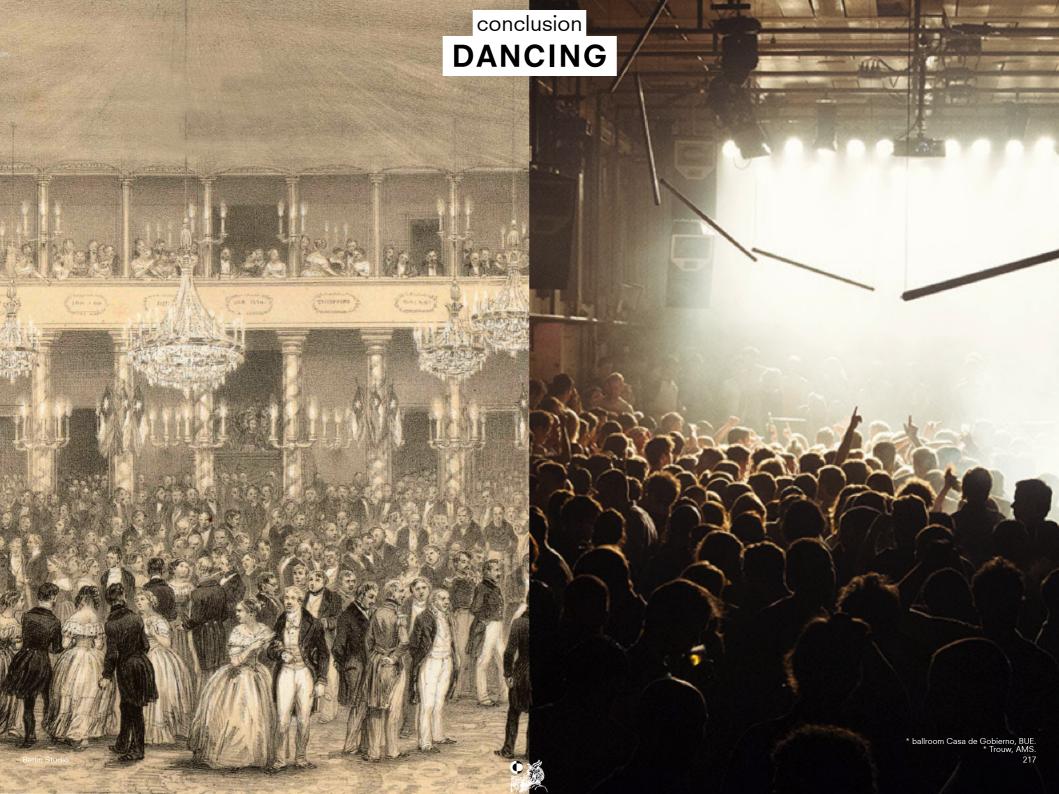
CONCEPT

IMPLEMENTATION

CONCLUSION

conclusion RESEARCH QUESTION

"Do modern nightclubs have structural and social similarities with old-fashioned opera houses?"



















COMPLEX PROJECTS THE TEMPLE OF MUSIC

Graduation presentation Job Vogel november/07/2024

1st mentor:

Jelmer van Zalingen

2nd mentor:

Edyta Milczarek

3rd mentor:

Rico Heykant



Complex Projects (

Architecture MSc 3 & 4

Tu Delft