

"THE ETERNALLY YOUNG CITY" WHY IS CO-LIVING NEVER FUN?!

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U.S.E MARCH1

Unil



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The Tour



DAMAGE

Tempelhof Airport, with respect, came across in a negative light. We feel it is important to bring some joy back to such a brilliant piece of architecture







> DESIGNETIOS

The Templehof Airport is a truly unique site in every sense of the word. Its scale, size and presence just south of Berlin is undeniable, yet currently it sits very underused.

After a spectacular tour of the site we couldn't help but feel an underlying yet understandable negative atmosphere surrounding the place. The Templehof, as an architectural masterpiece, was being clouded out by such a negative light.

Our design ethos grew from this negativity as we prioritised bringing fun and life back into and onto the site. Be it through bars, sports courts, or even just social spaces for people to meet and soak in the amazing views over the Park/Berlin. In terms of target audience, we drew upon the growing young population of Berlin to bring this joy back and explored Co-living as a tool to bring the young together.

'Living On Top Of the Templehof', as a design brief, encouraged us as a collaborative to explore the option of housing residents on the roof of such a brilliant site. Our approach was that of stark contrast to the mass form and atmosphere of such site. Block30 took a 'light touch' approach in creating both a physically and atmospherically light structure full of energy and fun!

USE as an atelier encourages the pushing of boundaries in a conceptual sense a well as constantly questioning why. We adopted this approach throughout by ensuring that our PS1 project not only met the technical requirements, but gave a strong reason to do so!! We took great enjoyment out of creating human scale experiences throughout BLOCK30 and using detailing, structural and environmental design to help, not to hinder, our design process.

WHAT? WHERE? WHY? WHO? HOW? Form the building blocks of Block 30, and were used as tools to constantly ground the project; giving BLOCK30 purpose and meaning in Berlin and henceforth allowing us to bring fun and life to the brilliant site that is the Templehof Airport.

REJUVENATION

When the Americans took over the airport they injected pockets of fun into the building

BLOCK 30 - WHAT WILL IT DO?



Packets of fun dropped into architecture

The Negative space will be turned into positive 'Event Pockets'





BLOCK 30 - WHERE WILL IT BE?







DERIN HOUSING CRISIS



Germany's projected growth is close to 0, but there are a huge number of migrants entering



The younger generation is pushed into the cities looking for job opportunities.



The rent in the Berlin is low, but is very quickly increasing. Since 2007 rent prices have increased by almost 80%, 20% alone last year.



1 in 6 Germans **live alone**, taking up a lot of space because the properties aren't suitable to use as 'modern' studio flats. This is causing a huge shortage in the capital.

BLOCK30

Young people under 30 encouraged to live together New construction is falling way short of demand



Some people claim that the built properties are not the right type and have fulfilled the 'rich' peoples demands and not the general populations.







BLOCK 30 - HOW will we do it?



WHAT WHERE WHY WHO HOW



BERLIN STUDY TRIP

Early human scale aesthetics and even potential detailing came out of some brilliant collaboration with several other intentional schools of architecture in Berlin.

We curated a lightweight timber language from the get go in an attempt to soften a potentially loud and chaotic building





Scale model of the Templehof created with students from several international schools of architecture



Early Block 30 1:100 massing model



WHAT WHERE WHY WHO HOW

IMPLEMENTING OUR APPROACH THE FUN BETWEEN THE LINES



Outdoor Bar/Cafe spaces

'Sporting' areas

Circulation (Yellow) and Social breakouts.



Negative spaces become positive 'event pockets' growing up out of the Templehof





1. Fractured Framework

2. Event Pockets

3. +/- Space

4. Occupy

EVENT POCKETS



BLOCK 30 - WHAT WILL IT DO?

$(\mathbf{x}_{1}(\mathbf{x}_{1})-\mathbf{y}_{1}) \mathbf{x}_{1} \mathbf{x}_{1$

To increase the densities and help tackle the housing shortage in Berlin, BLOCK 30 ENCOURAGES CO-LIVING

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To encourage this Co-living, the shared apartments get the prime locations within the complex. Studios are at the back and base of the building where as the larger co living apartments can be found looking out over Templehof park or even as double storey penthouses!



B30 - Y() (Y(x + y)) (Y(y))

As Block 30 is targeted at young adults, we understood the importance of creating a comfortable stress free experience. We therefore included several simple 1 bed studios to act as bridges between living alone and co living:









GRID HALF FULL OR HALF EMPTY



Block 30 Sits as a contrasting light touch on top of the brutal Templehof structure. Two raised masses talk to each other within the grid.

With so much of the grid eaten away to create event pockets, some of this mass is added back onto the top to create rooftop bars and gardens



TEMPLEHOF PARK AND INTERNAL PERSPECTIVE





From within the arc of the Templehof, Block30 has a much more unique, eroded and fundamentally more playful form. It opens its true colours as a lively space for the young

SCULPTING THE NEGATIVE





'Redline' Pietri Architectes



EMPLEHOF "HIGH-LINE"

'Superkilen Park' BIG





VIEWS VIEWS VIEWS

A flat platform reaches out from entrance level to offer unobstructed views over the solar farm towards the park.

Bleacher seating cascades down from this platform to level -01 where a large open event space can be found (sheltered by the 'light touching' platform). This space could host numerous pop ups or exhibits, such as the market place shown above.

The large plant room is also tucked away nicely under this platform freeing up B30's roof gardens.

TEMPLEHOF 'HIGH LINE'



Desire Lines

The landscape in BLOCK30 adopts a fairly simple geometry so as not to distract from the building itself. It features a simple ribbon which flows across the Templehof roof and cuts its way through the BLOCK 30 complex.

TEMPLEHOF CONTEXT

With such an expansive SITE, the potential is there to grow BLOCK 30 across the entire roof. Creating a huge urban micro-city for young people in Berlin. The prefab modularity of the building allows it to east expand and contract with demand



SUPPLY + DEMAND



THE CURVE



Due to the prefab nature of the structure, we are tackling the curve by using lots of smaller straight lines.

This allows the same sized parts (beams columns) to be used and keeps costs down





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Between the apartments sit BLOCK30's wide range of Event Pockets. These range from wonderful quirky gyms overlooking Berlin to quiet social spaces and chill out zones

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SOCIAL BREAKOUT SOCIAL BREAKOUT INSIDE / OUTSIDE ATMOSPHERE ATMOSPHERE ATMOSPHERE ATMOSPHERE COLOUR TEXTURE COLOUR THRESHOLD PERSPECTIVE

BLOCK 30- Event Space 3pt Perspective



INTERNAL EXTERNAL PALLET



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CO = LIVING

Large Co-living units sit in the prime locations around BLOCK30, they feature large mezzanine levels and double height spaces with outdoor terraces and balconies to entice people out of their one bed studios





STUDIO LIVING

Cosy studio flats sit at the lower levels and towards the 'back' (North face) on the building. Sort North light fills the rooms creating calm places to settle into the complex. The rooms are designed to be simple and clean to then encourage people to use the event spaces and brilliant social areas to meet new people and 'upgrade' into a larger Co-Living unit

. STUDIOS







CLADDING

To soften an otherwise loud complex, cedar shingles will clad the walls. The geometry and natural properties of timber means that shingles will create a much calmer atmospheres



STRUCTURE CONSTRUCTION DETAIL

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1:20 aesthetic 2 storeys 1 grid



Interior atmosphere - Direct light through timber shutters



TH Roof Light touch

Floor and wall Breakdown





The light weight Oak timber frame has a delicate aesthetic with a light touch on the heavy Templehof mass. Wooded panels sit within the frame to create an overall very 'woody' aesthetic to contrast the templehof and create a natural calm (both mentally and physically through sound) atmosphere for living amongst such a busy complex.



LIGHT TOUCH MASSING





ENVIRONMENTAL



Open external floor plates and corridors encourage air flow and cross ventilation through the building to cool the rooms and spaces within.

Double height spaces within the co living apartments allow air to circulate in at low level and out at high to cool the room and clean the air.

Grey water is collected by utilising the Templehof's large surface area. This is collected, fed to the plant room on level -01 and distributed around the complex through the beams and columns. This water is used for toilets and cleaning.

Block30s Pergola roofs also collect water in a similar fashion.







ENVIRONMENTAL DESIGN

LIVE LUX LEVEL ANALYSIS



Living room/ kitchen lighting meeting recommended 200-300 lux



Bedroom lighting meeting recommended 100-200 lux

External spaces shaded through use of timber structure, pergolas and railings





The orientation of the Templehof means the key facade with views over the park is actually at risk of causing overheating and glare issues. To tackle timber shutters will be used giving the owner flexibility and choice over light levels. The structural frame and large balconies also

Timber shading precedents





Site preparation + Structure erected from prefab parts

Floor plates constructed on site from Pre fab elements

Fully fitted out prefab SIPS wall panels Slotted into the frame and mechanically fixed





Landscaping constructed + building fitted out. Building In Use





GA PLAN



LOA



ga plans

GA PLAN SITE PLAN

















- Wall (SIPs Panel):
 1. Timber shingle cladding Thickness 10mm at the butt; size varies
 2. Vapour control layer Thickness >1mm
 3. Structural timber (OSB) Thickness 18mm
 4. High-density foam insulation with added fire retardant Thickness 225mm
 5. Structural timber (OSB) Thickness 12mm
 6. Fire-board 15mm
 7. Interpol finiah 5mm

- 7. Internal finish 5mm
- 8. Timber baton capping SIPS Panel above window
 9. Timber frame window Size 2100mm x 3000mm; Panel sizes approx. 2000mm x 1000mm
- Frame: 10. Oak timber frame made up of 4 x 100mm posts connected vertically 1000mm ctrs 11. Decorative timber panels Thickness 18mm 12. High-density foam insulation with added fire retardant Thickness 100mm

- Floor: 13. Timber floor panels Thickness 14mm 14. 150w under floor heating foil Thickness 1.5mm 15. Impact insulation board Thickness 5mm

- 16. Structural Timber (OSB) Thickness 18mm
 17. Timber floor joists Dimensions 250mm x 100mm mechanically fixed to the timber frame
 18. High-density foam insulation with added fire retardant Thickness 250mm
- Structural Timber (OSB) Thickness 18mm
 20. 2 x Fire board ceiling panels Thickness 30mm
 Internal finish

- 22. Movement joint 23. Steel knife connection to Tempelhof roof



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PART B - Fire safety



PART K - Protection from falling





In guidance with the document the handrail is 1100mm tall with a circular hand rail (35mm diameter). The railings are spaced 99mm apart to ensure a child's head cannot fit through.



Stair rise and going are in accordance to the approved document K. As the stairs are angled they don't need a separate nosing, but a 20mm overlap is created by the angled profile. A contrasting stair nosing is provided for visibility and extra slip resistance.



minimum 30 minute Fire Rated. With a maximum escape

distance of 9m.

The building has a dedicated refuge point in case of emergency and then shows the effective clear width down the staircase.

PART M - Access to and use of buildings



The corridor and door widths are above the minimum required for a comfortable journey to and between flats.



To ensure our building is accessible the entrance to the accessible flat is large enough for a 1500mm diameter turning circle, has 1000mm door and corridors which are 1650mm in width.



The lift carriage is above the required dimensions for users of any ability.



The toilets are above the recommended DDA toilets dimensions and fit a turning circle of 1500mm in diameter.











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Colourful Court, Paris III-Studio

House in Tschengla Innauermattarchitekten Yard house by Assemble

REFLECTION







Dinerama, Shoreditch