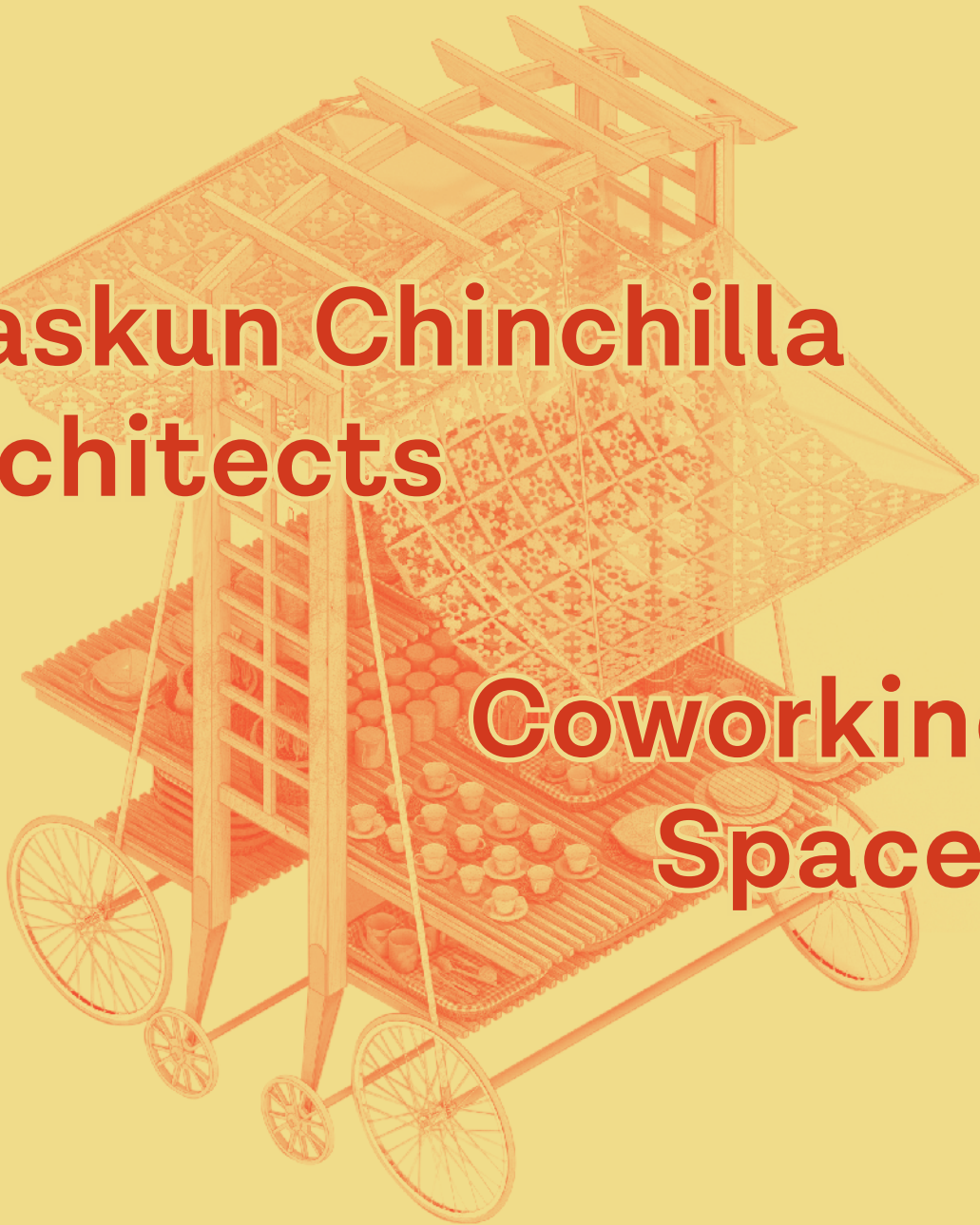


Izaskun Chinchilla Architects

Coworking Spaces



**Izaskun Chinchilla
Architects**

Coworking Spaces







red.es

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1 (previous) Canteen
at Utopicus Clementina,
Barcelona.

2 La Nube, Madrid. Theatre
with foldaway furniture.

Project Details

Author	Izaskun Chinchilla
Title	Coworking Spaces
Output Type	Building and interior design
Projects	Utopicus Clementina, Barcelona (2019) La Nube, Madrid (2017) Utopicus Conde de Casal, Madrid (2016) Príncipe de Vergara, Madrid (unrealised, 2018) Nida, Madrid (unrealised, 2016)
Commissioners	Colonial, Espais Blaus, Fundación Biodiversidad, Red.es, Utopicus
Architectural Team	Adriana Cabello, Roberto de Vicente, Alejandro Espallargas, Guillermo Sanchez, Jesús Valer, Mercedes Zapico
Architectural Assistants	Ismael Fernández, Cristina Traba
Preliminary Research	Alejandro Espallargas
Structural Calculation Tender	BAC Engineering Consulting Group
Structural Consultant	Roberto Marin
Site Supervision Accountant	Amanda Basso
Service Engineer	Jaume Mata
Project Management	Gerard Casas, Miguel Tello
Lighting Consultancy	ERCO
Textile Design	Sunbrella
Lighting and Furniture	Santiago Sevillano
Ceramics	Vives
Embroidery	Raquel Rodrigo

PROJECT DETAILS

Carpentry and Basket Making	Teodoro Sanchez
Artist	Luis Jimenez
Contractors	Penta, David Ruiz Garcia, Handyman Group
Local Heritage Commission at Gràcia District	Eloi Badia, Janet Sanz
Supervisor at Gràcia District Council	Laia Isern Granados
Client Representatives for Red.es	Beatriz Bosch Lozano, Enrique Guisasola Piqueiro
Methodology for Post-Occupancy Evaluation	Insighters Experience
Budget	€922,600

Statement about the Research Content and Process

Description

Izaskun Chinchilla Architects have designed five coworking spaces for Spanish cities, three of which have been realised. Highly customised for their specific location and users, these environments make use of an original appropriation of IKEA components combined with local craft and passive climatic and biophilic strategies.

Questions

1. How can the architectural typology of coworking spaces evolve by involving users in the design and alteration of space?
2. How can coworking environments reflect local architectural contexts?
3. How can architecture benefit from hacking, local craftsmanship and an inventive, versatile and economical adaptation of IKEA furniture?
4. Which environmental principles can be applied to the design of coworking spaces, considering that many operate in existing buildings?

Methodology

1. Space Syntax, interdisciplinary collaboration and user engagement;
 2. Hacking with the coworking community;
 3. Low-cost materials and artisanal craftsmanship;
 4. Passive climatic strategies and biophilic principles;
 5. Post-occupancy evaluation.
-

Dissemination

Chinchilla has presented her coworking projects in four print publications (*Co-Working Space Design*, *Deco Journal*, *NAN Arquitectura y Construcción* and *WA Magazine*) and in lectures at over 30 universities and institutions worldwide. Since 2016, the series has featured in over 30 architectural magazines and specialised websites, like *ArchDaily* and *Diseño Interior*. Two international group exhibitions have featured aspects of the series, at SCI-Arc in Los Angeles (2018) and La Cité de l'Architecture et du Patrimoine in Paris (2020).

Project Highlights

La Nube was Izaskun Chinchilla Architects' winning entry to an architectural contest run by Red.es, a public corporate entity of the Ministry of Energy, Tourism and Digital Agenda of the Government of Spain, which aims to stimulate the digital economy by supporting young professionals and small and medium-sized enterprises. The combined knowledge base of the five projects presented in this folio have enabled Izaskun Chinchilla to act as a consultant for the implementation of coworking spaces for organisations such as Booking.com and Colegio Oficial de Arquitectos de Madrid.





3

3 Conde de Casal, Madrid.
New York-inspired
entrance and front desk.

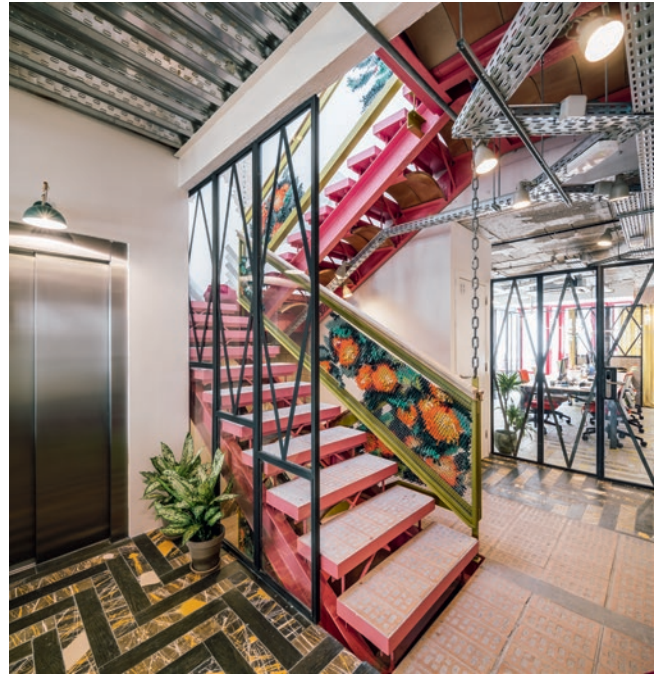
Introduction

Between 2016 and 2019, Izaskun Chinchilla Architects designed five coworking spaces, three of which were realised: Utopicus Conde de Casal (2016) and La Nube (2017), both in Madrid, and Utopicus Clementina (2019) in Barcelona. Each project has site-specific characteristics and user requirements, promoting social, visual and acoustic comfort. Two design proposals in Madrid – Nida (2016) and Príncipe de Vergara (2018) – remain unrealised.

Utopicus was one of the first companies to introduce coworking spaces in Madrid. Architects are commissioned through competitions, a strategy that contrasts companies like We Work who use internal teams of designers. Chinchilla's work was instrumental in consolidating a model for Utopicus' vision of coworking. It has influenced the real-estate company Colonial to invest €30 million since 2017, with an aim to open 13 new spaces in Madrid and Barcelona by 2021.

Conde de Casal, Madrid

Utopicus Conde de Casal, in the largely residential area of El Retiro Park, offers 1,000 m² for 120 coworkers across two floors. The project involved participatory design, construction and hacking of mobile office equipment in its construction. Built with a limited budget, it improves the environmental credentials of the existing buildings and has helped to attract a creative community to the neighbourhood. It also provides a venue for local extracurricular activities such as Scouts.



4

4 Clementina, Barcelona. Staircase featuring embroidery by Raquel Rodriguez.



5

5 Clementina, back façade and courtyard.

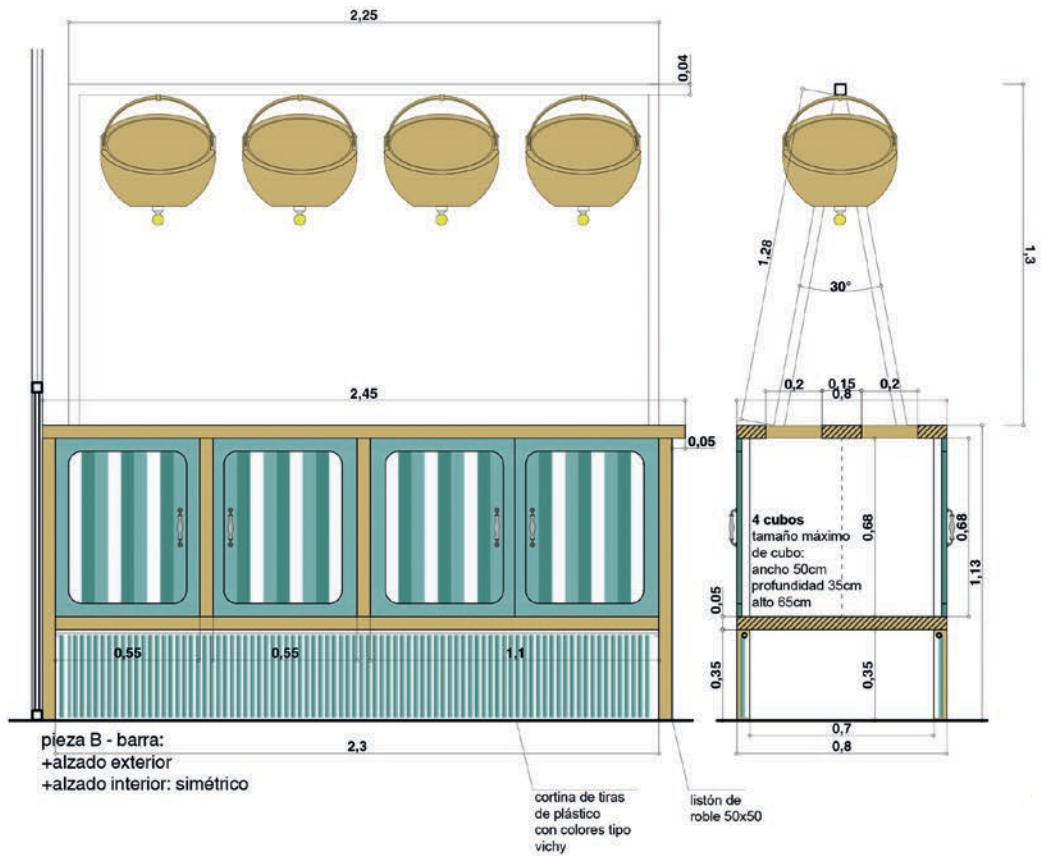
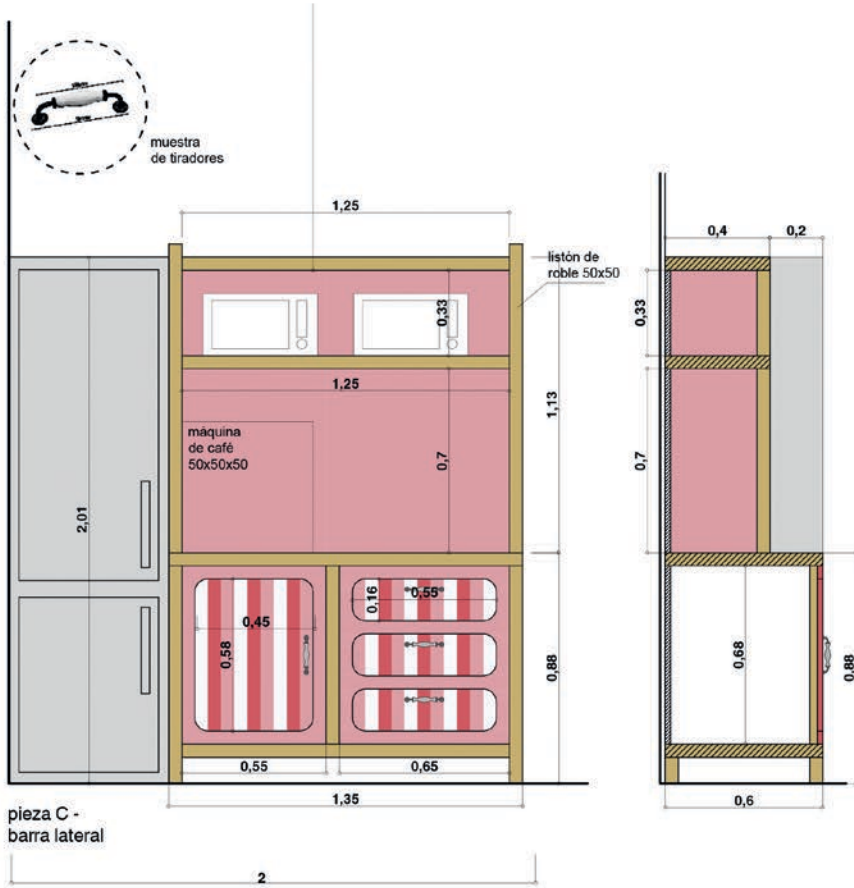


6

6 Clementina, canteen with crafted lamps and manually cut wallpaper.

7 Technical details for Clementina's canteen furniture.

INTRODUCTION



Clementina, Barcelona

Utopicus Clementina is located in Gràcia, a key location of Catalan modernism, which is controlled by strict planning regulations set by the Heritage Commission. Izaskun Chinchilla Architects was the second practice to apply for planning approval and succeeded with help from multiple detailed studies of the street context. The 500 m² renovation, across all levels of the existing concrete slab and column structure, provides space for 60 coworkers. Special attention was paid to the architectural heritage of the area, craft techniques and the use of passive climate strategies (4-6). This was the first Utopicus site to enable a coworking club, hosting social programmes after work hours, and a canteen that opens onto the street offering free workspaces.

La Nube, Madrid

La Nube is a private office space in Madrid owned by public corporate entity Red.es. Chinchilla designed a flexible space of 240 m² – ‘innovation room’ – for external stakeholder meetings. Working alongside the final users, Chinchilla’s team were able to customise foldaway furniture for flexibility and adaptability (8-9). Extensive use of hacking throughout fabrication was based on research into how digital systems, such as Windows, could help organise space.



8 La Nube, Madrid.
Theatre distribution.

INTRODUCTION



8



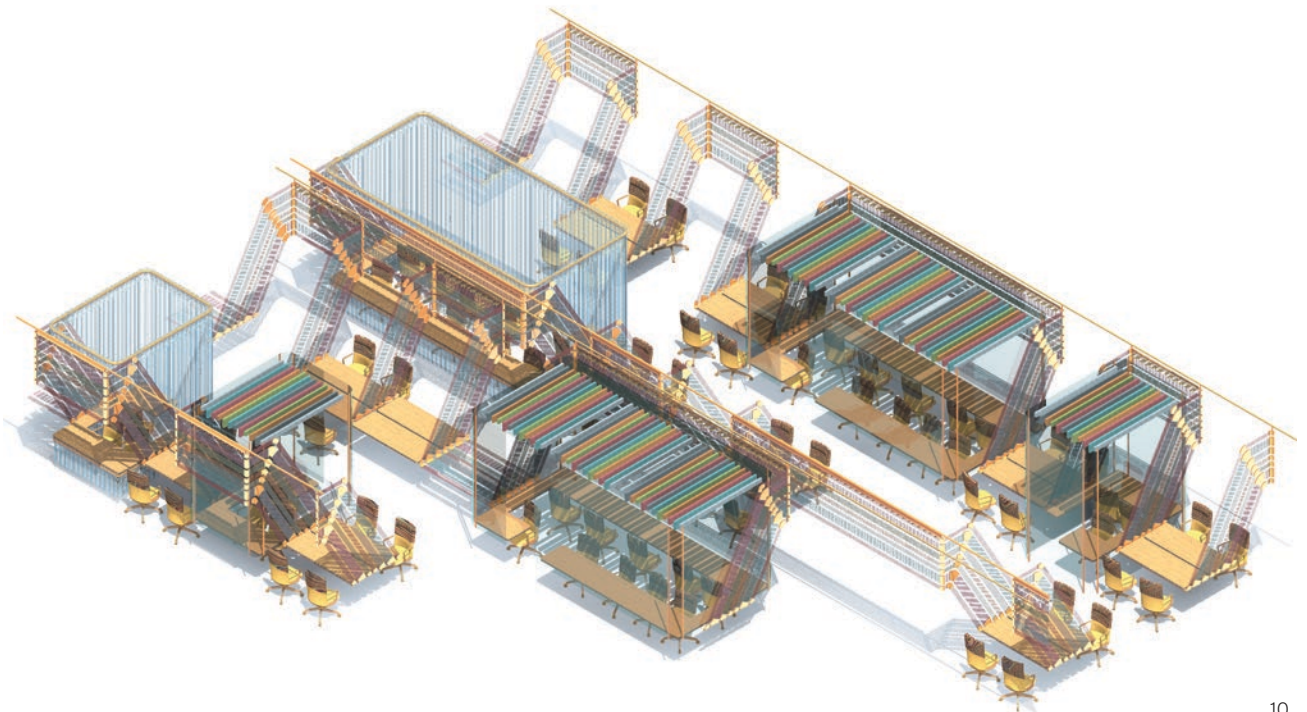
9 La Nube's training room distribution.

INTRODUCTION



Príncipe de Vergara and Nida, Madrid

Chinchilla's unrealised design, Príncipe de Vergara **(10)**, promotes flexible work and is organised using colour-coded screens. Another unrealised design is Nida – for Fundación Biodiversidad – in which the furniture has been designed using discarded materials. Nida's glass roof features solar panels so that it is fully powered by renewable energy **(11-2)**.



10

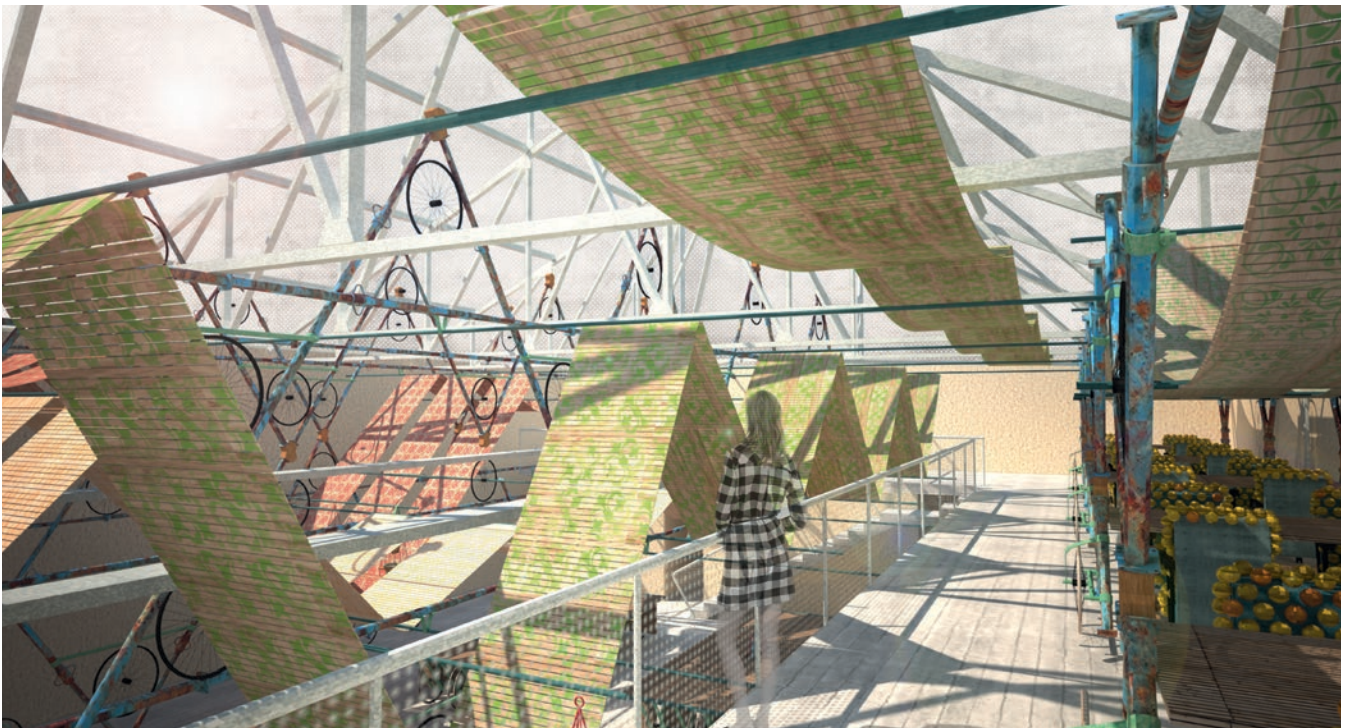
10 Rendering of Príncipe de Vergara, Madrid (unrealised).

INTRODUCTION

Izaskun Chinchilla's series of coworking projects constitutes a solid knowledge base that has enabled her to act as a consultant. She has advised on the implementation of coworking spaces for Booking.com (February to June 2018) and Colegio Oficial de Arquitectos de Madrid (October 2017 to August 2018).



11



12

11 Nida, Madrid (unrealised).
Interior view rendering.

12 Rendering of canopy
system for Nida.

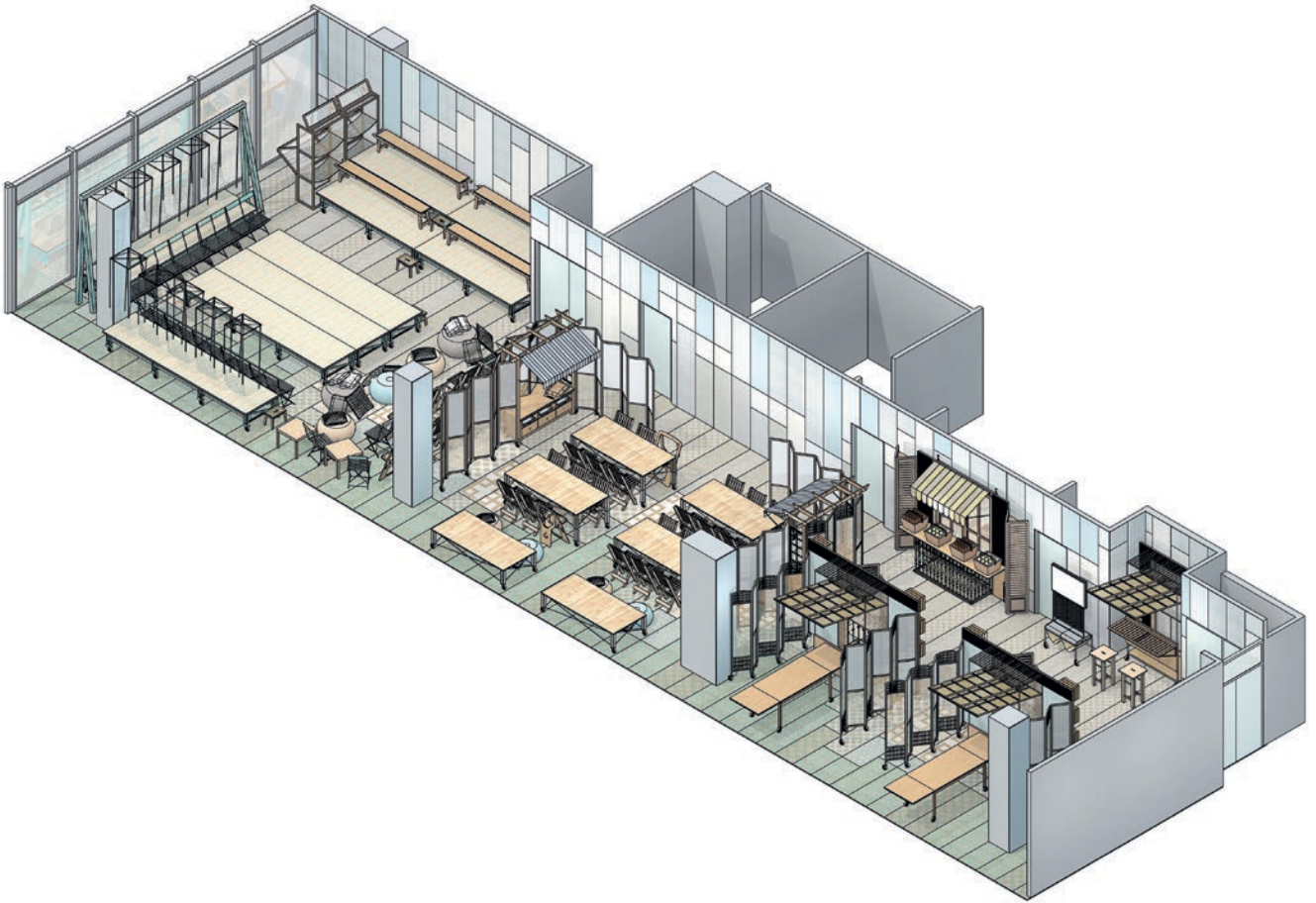
Aims and Objectives

1. Explore the potential of coworking spaces as incubators of collaborative culture, inheriting values from makers and hackers normally excluded from corporate workspace design and fabrication;
2. Work with users to customise spaces for working. This differs from global brands that tend to use design standardisation;
3. Adapt the design to site-specific conditions, contributing to placemaking and heritage preservation;
4. Explore alternative aesthetic, acoustic and perceptive atmospheres that offer comfort, e.g. avoid impersonal semi-industrial environments with low acoustic quality;
5. Reappraise the qualities of the handcrafted over the prefabricated to create satisfying work environments;
6. Pursue gender-sensitive design strategies;
7. Develop circular economy and hacking architectural processes by repurposing industrial furniture for environmental, financial and user benefits;
8. Implement passive climatic strategies to avoid the use of air-conditioning, decrease emissions and reduce energy consumption;
9. Contribute to street life and introduce educational and cultural facilities in neighbourhoods without such amenities;
10. Promote coworking in local spaces as a way to create shorter commutes, enabling low-impact transportation that reduces carbon emissions.

Questions

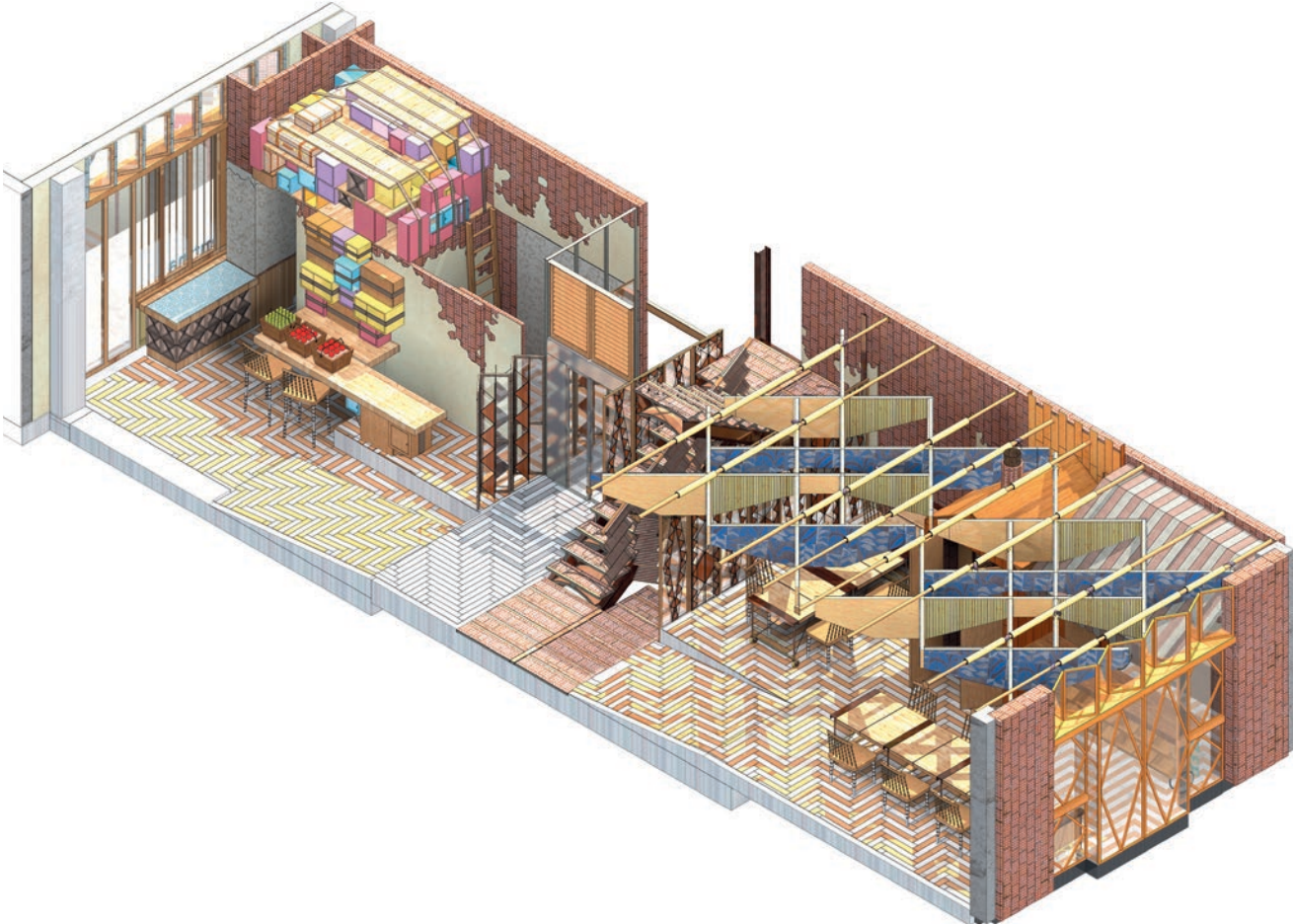
1. How can the architectural typology of coworking spaces evolve by involving users in the design and alteration of space?

Izaskun Chinchilla's approach to coworking spaces has been developed in opposition to the architecturally compromised norms of corporate environments that tend to separate working areas from networking areas. Typically, investment in such environments is prioritised to the communal areas (€500–550/m²), hence workers are offered small substandard cells (€250–300/m²) with insufficient natural light and acoustic privacy. Chinchilla's designs offer a refreshing alternative by blurring distinctions between open plan and individualised blocks, and distribute comfort across all spaces.



13

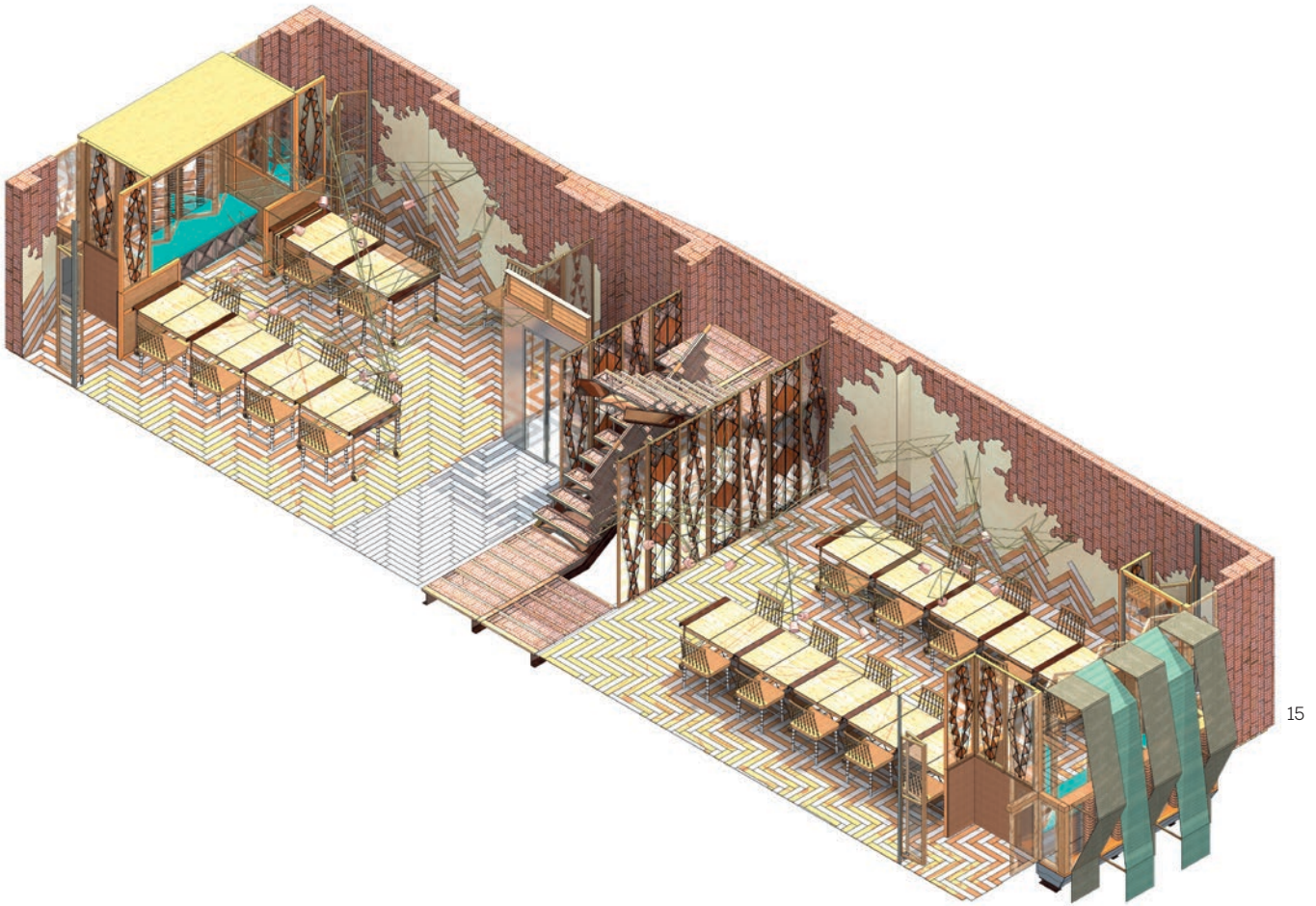
13 La Nube, Madrid.
Axonometric rendering.



14

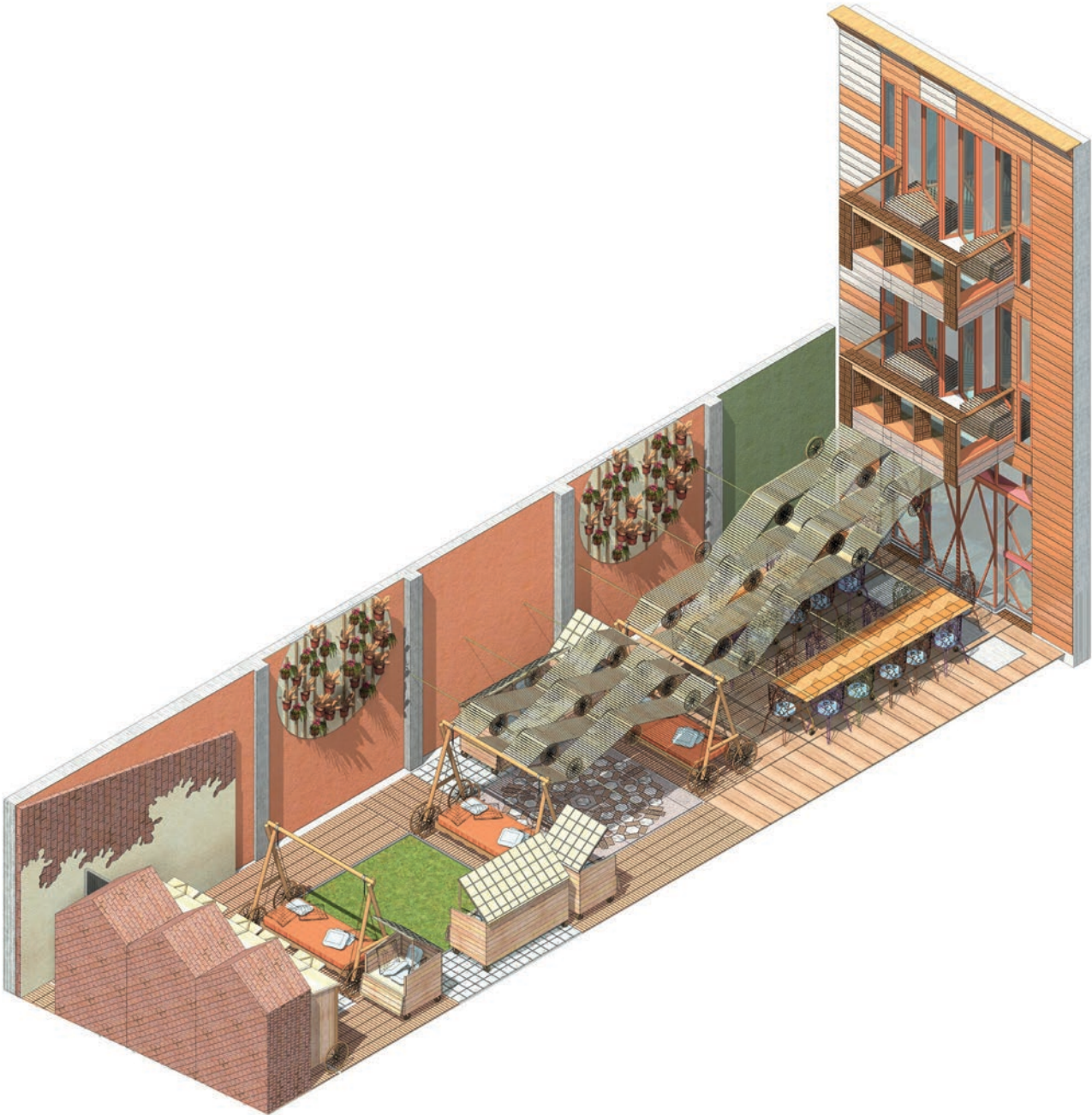
14 Clementina, Barcelona. Ground floor axonometric rendering.

QUESTIONS



15

15 Clementina, first floor axonometric rendering.



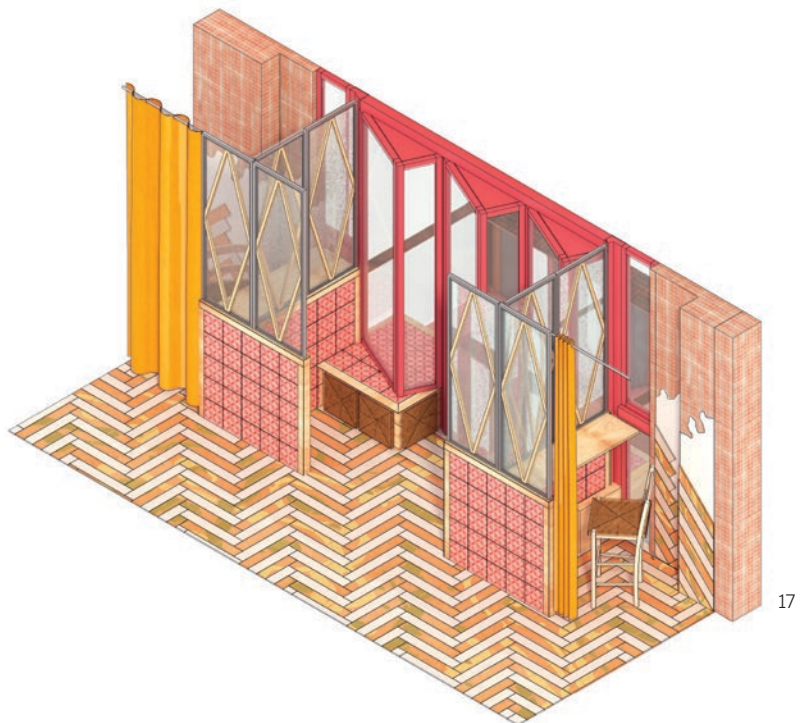
16

16 Patio club proposal for Clementina's courtyard. Render showing sunshade system.

QUESTIONS

Chinchilla's human-centred approach to design aims to improve the user experience. It aligns with recent critiques of the white, masculine culture that dominates tech office culture (Wiener 2020). Although intending to provide flexibility and freedom, prevailing design approaches for corporate coworking spaces can often create intimidating working environments. Chinchilla's approach differs by actively involving users in the design process and focusing on improving their physical and psychological comfort through architecture, which is believed to increase a person's sense of wellbeing (Dodge et al. 2012). To achieve this, her approach to design mixes three elements:

- Domestic environments and materials
- Activities associated with leisure time and rest, e.g. picnic lunches
- A technical investigation of the psychological perception of acoustics, lighting, colour and pattern



17 Clementina, balconies inner room.

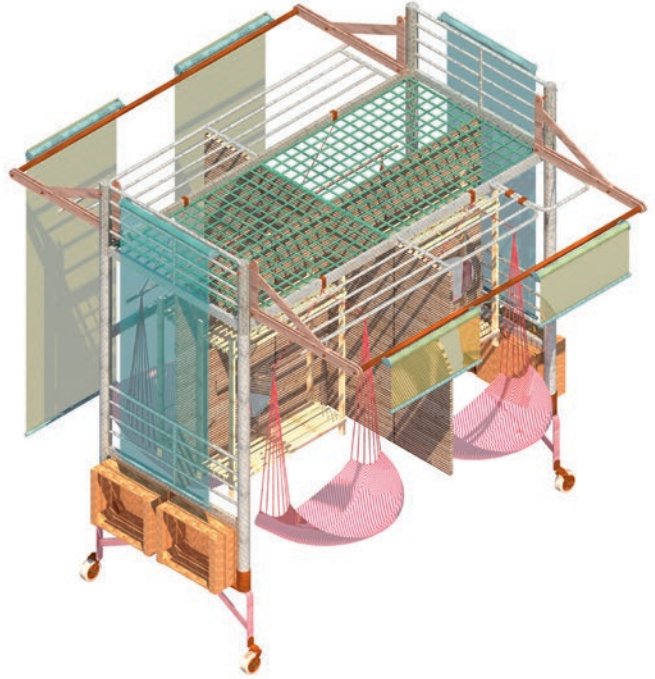
The desk design for Conde de Casal (2016) sought to overcome criticism of other Utopicus workstations as lacking convenient storage, privacy, acoustic comfort and the possibility to alter seating positions. Chinchilla repurposed the two levels of IKEA's SVÄRTA bunk bed as a desk and canopy, and also provided storage space **(18)**. By cutting and manipulating the structure, Chinchilla created four workstations, subdivided using acoustic absorbent materials. Each offers three seating possibilities and movable textile blinds to provide privacy.

The Red.es company lounge is another example where user feedback influenced the design process. The workers created the brief and selected two representatives to collaborate with the architects. A number of problems needed to be addressed: colours that may contribute to stress, lack of natural light and views, lack of flexibility and a need for areas to rest and informally interact. In a collaborative workshop, the team designed a flexible configuration of semi-open rooms and partitions, kept away from the glass façade. Users were given the opportunity to select colour, pattern and material pallets, and, with the architects, defined five common spaces: small meetings in the entrance, two foldable rooms (ten people), a larger room with space for equipment (20 people) and a brainstorming room (50 people). All spaces incorporated playful details, including cushions, blankets and swings.

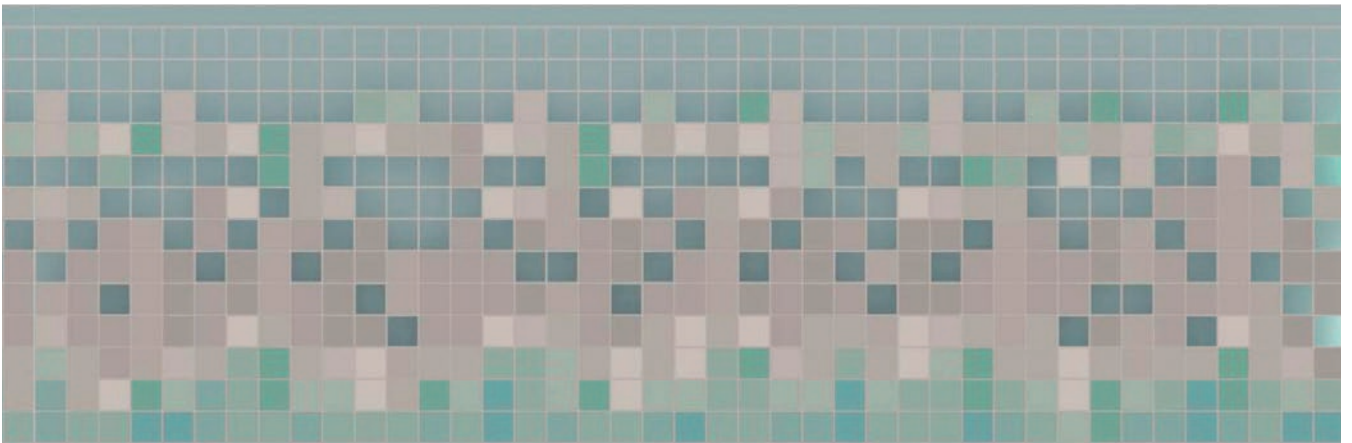
18 IKEA SVÄRTA bunk bed assembly instructions alongside hacked desk design for Conde de Casal.

19 La Nube's pixelated clouds ceiling design. The colour palette was defined in collaboration with the final user.

SVÄRTA



18



19



QUESTIONS



21

20 Conde de Casal,
Madrid. Back side view
of the front desk.

21 La Nube, Madrid. Stage
and bleachers.

2. How can coworking environments reflect local architectural contexts?

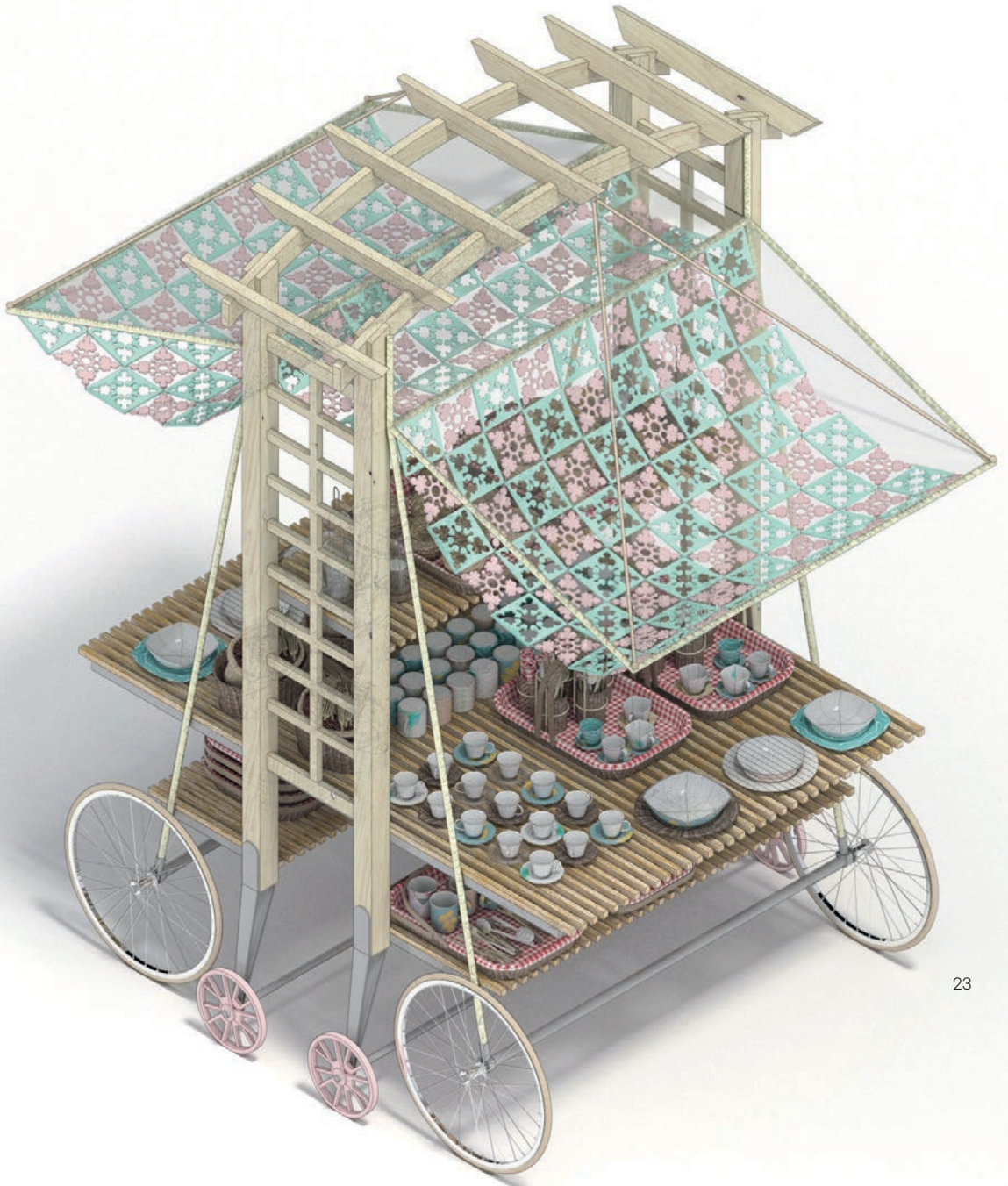
Inspired by vernacular architecture, the five coworking spaces presented in this folio work as community hubs. A number of adaptable 'staged' spaces draw inspiration from local landmarks, streetscapes and markets.

To provide security and intimacy at Booking.com's new Amsterdam headquarters, workstations open or close like a closet with doors inspired by the façades of local buildings. For the outdoor courtyard of Clementina, Chinchilla's team developed a movable stall, inspired by the terraces in Barcelona, using locally produced flatware **(23)**. Similarly, the design proposed for Colegio Oficial de Arquitectos de Madrid was based on local houses and the proposed canteen at Príncipe de Vergara enabled local restaurants to bring in their products.



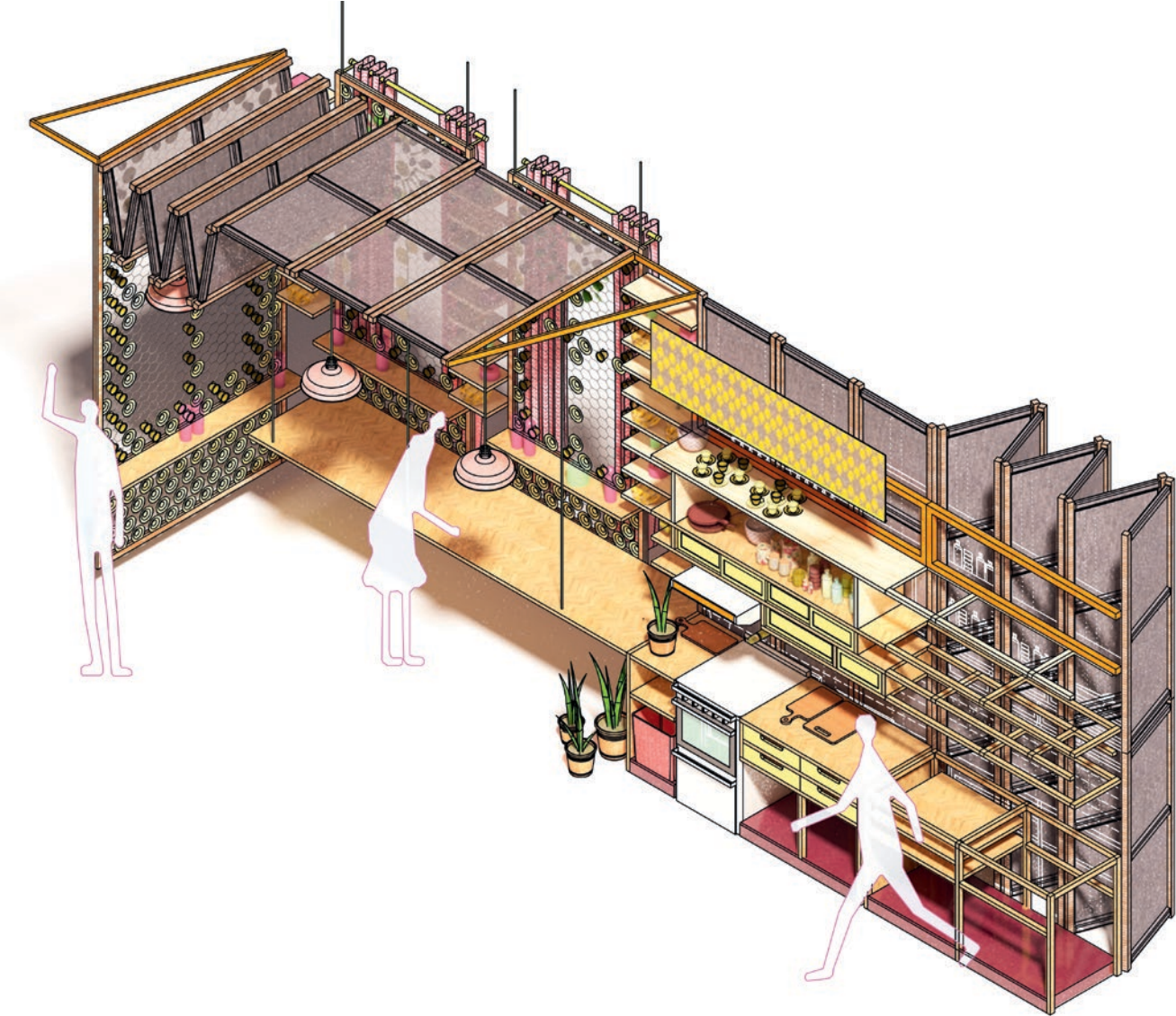
22

22 Rendering of Booking.com's Amsterdam-inspired desks.



23

23 Rendering of a hacked stall for a coworking canteen.



24

24 Rendering of a kitchen for Colegio Oficial de Arquitectos de Madrid.

QUESTIONS

The design of Clementina's façade responded to strict regulations from the Local Heritage Commission. From August 2016 to December 2017, Chinchilla's team presented the local authorities with 24 versions of the façade before finally gaining approval (26). Together with the council, the architects selected eight specific reference buildings (25). Their use of ceramic strips, balconies and increased size and proportion of windows were particularly influential (29).

In particular, Calle de Bretón de los Herreros and Plaça de la Vila de Gràcia informed the window distribution of Clementina's façade, while the selection of colours was based on the Barcelona Colour Plan. Chinchilla referenced the semi-glazed ceramic tiles of Gràcia's protected buildings, enlarging them to 100 x 40 cm to create a trans-ventilated façade. Each tile was divided into two areas and aliphatic polyurethane enamel was then stencilled on by hand (30).



Carrer del Torrent de l'Olla, 158



Carrer Gran de Gràcia, 172 i 174



Carrer Bretón de los Herreros, 3 i 5



Carrer de Santa Àgata, 21



Carrer Gran de Gràcia, 156



Carrer del Torrent de l'Olla, 143

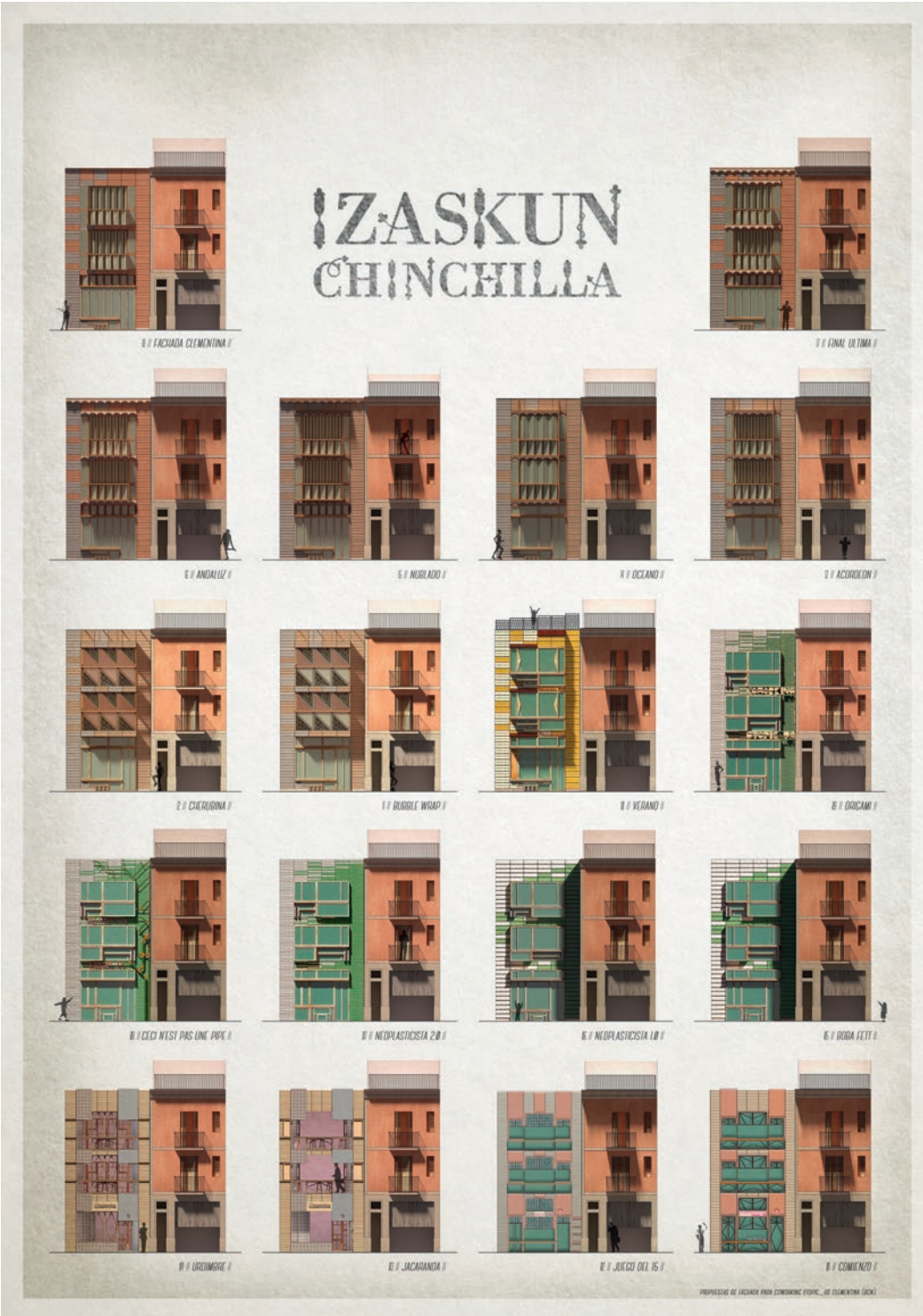


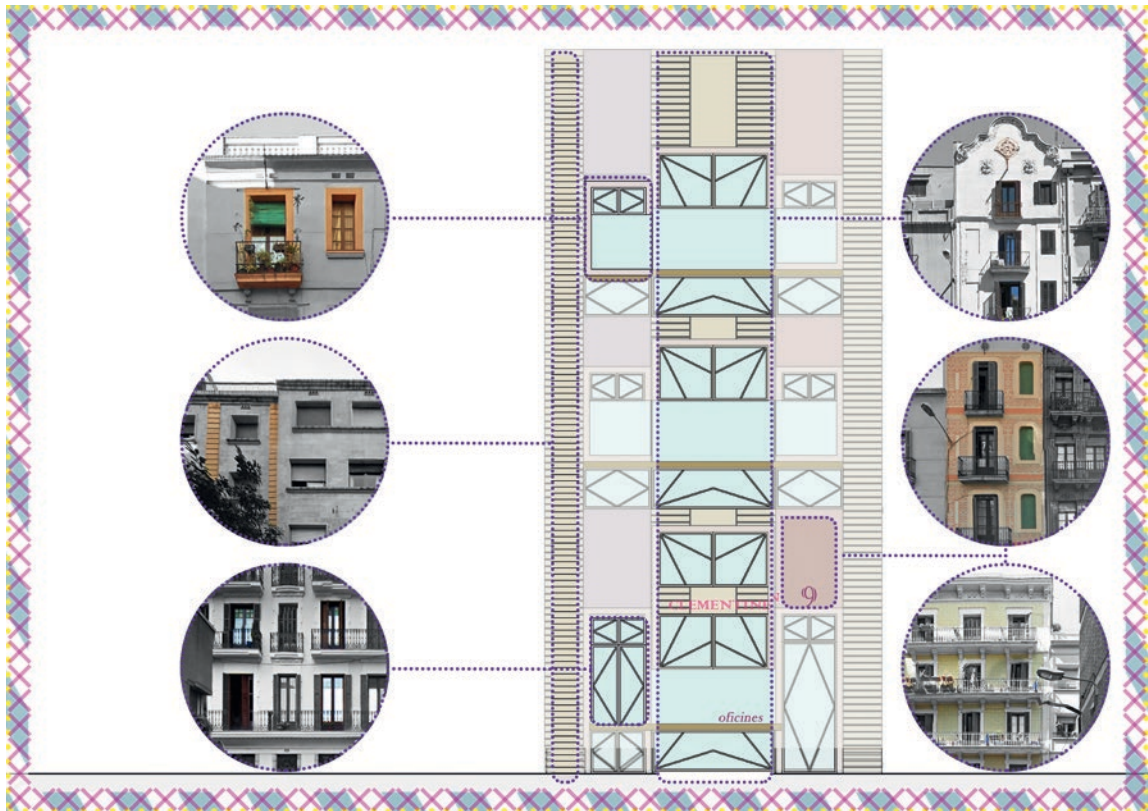
Carrer de Jaén, 12



Carrer de Sant Salvador, 101

25 Building façade research for Clementina, Barcelona.



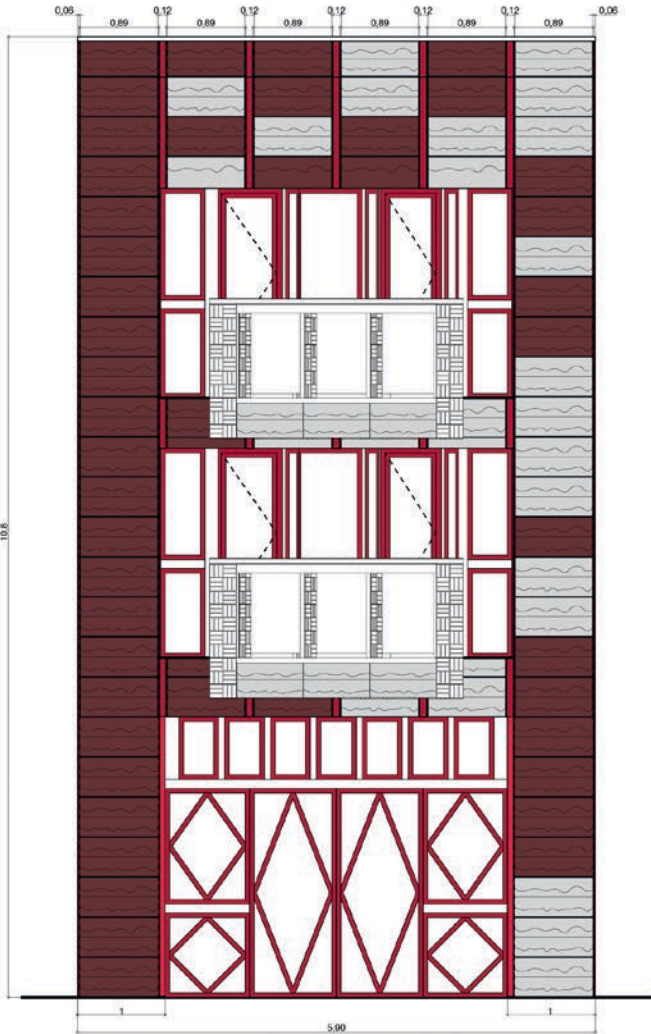


27

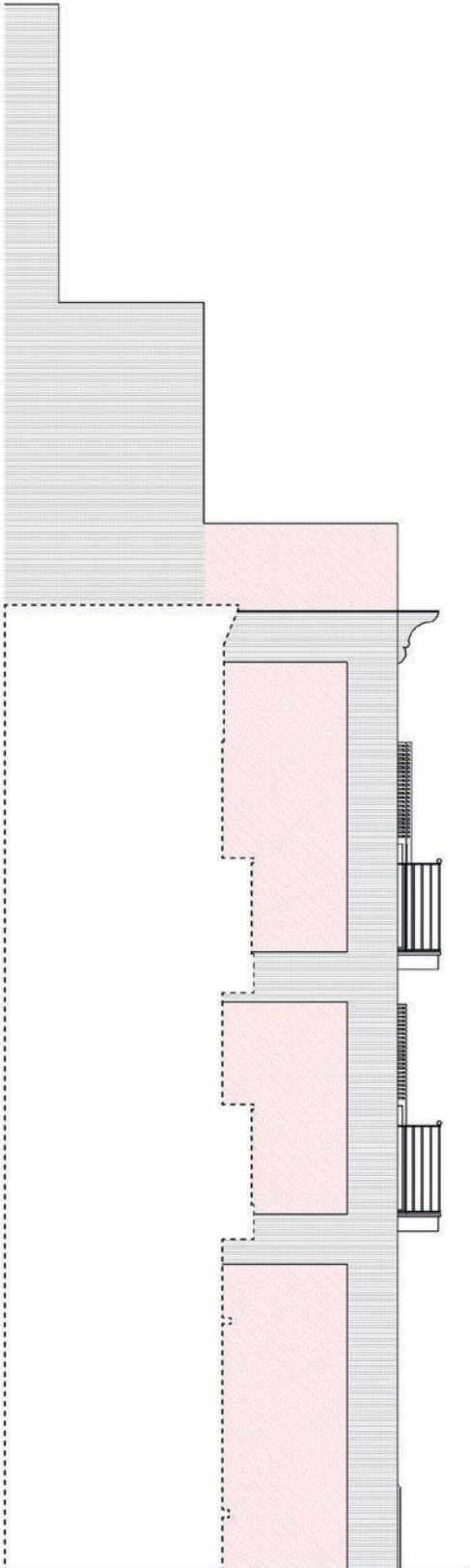
26 Clementina, façade evolution poster.

27 Clementina, preliminary façade with inspiration taken from the local area.

28 (overleaf) Clementina, elevations and planning of manual painting integration on the façade.



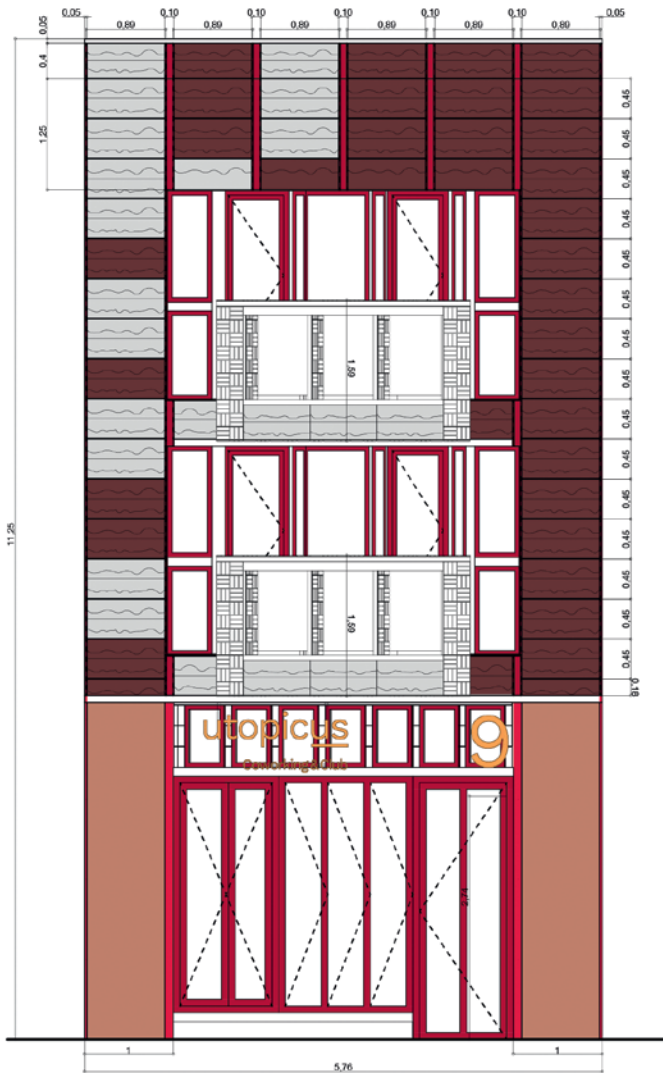
FACHADA A PATIO INTERIOR (ALZADO SUR)



FACHADA DE PROPIEDAD COLINDANTE
BRETÓN DE LOS HERREROS, 9 (ALZADO ESTE)

QUESTIONS

- VIVES RUHR MOKA
44,3X89,3 cm
- VIVES RUHR BLANCO
44,3X89,3 cm
- ENFOSCADO
RAL 3012
- RAL 3003
- REVOCO ROSA
SALMON VECINO n°11
- ÁREA RESALTADA
REVOCO GRIS VECINO n°11



FACHADA A CALLE BRETÓN DE LOS HERREROS, 9 (ALZADO NORTE)

3. How can architecture benefit from hacking, local craftsmanship and an inventive, versatile and economical adaptation of IKEA furniture?

Chinchilla's research has a strong focus on the circular economy. At the beginning of each project, the team systematically evaluates the possibilities of recycled/reusable materials and hacking techniques. Environmental impact, value, price, carbon footprint, waste, time and engagement are all taken into consideration.

The team researched how IKEA furniture could be combined with other standard commercial products and then customised with connection joints and handcrafted elements made from raw materials. In contrast with mass-produced items usually found in offices, these hacked and handcrafted elements aim to better represent the personalities of producer and user. Each project attempts to engage with the demographic of its workers: Utopicus Clementina focused more on craftsmanship, while La Nube and Utopicus Conde de Casal – both intended for the digitally trained community – focused on hacking.

The advantages of the hacking process were remarkable:

- Price: the cost of the hacked desk (**29**) was significantly cheaper than a custom-designed desk, and the money saved could be spent on the labour required for personalisation;
- Functionality: the hacked design allows users to personalise the space based on their preferences, e.g. blinds are available to create privacy;
- Investment recovery: the coworking provider is able to reuse and repurpose much of the hacked version;
- Customising opportunities: the design can easily be customised and adapted;

- Design uniqueness: the hacked design acquires a distinctive identity;
- Waste: the hacked design only has packaging leftovers;
- Carbon and impact: IKEA's FJELLSE is made from renewable wood, while its SVÄRTA will be made of 100% recycled steel by 2030. All elements can be repurposed.

QUESTIONS

SVÄRTA

LISTA DE MATERIAS PRIMAS

Uso	Ref	DESCRIPCIÓN	Unidad	Cantidad	Precio Unitario	Precio Total
Uso	AMQ2N	Letra metálica rev. medida 92 x 184 x 189 cm. color metálico	1,00	129,00	129,00	
Telero de Madera	LEKJY MEKLU	Telero de contrachapado de 244 x 122 x 1,8 cm. Acabado en color estudio	1,00	45,00	45,00	
Terminar	AMQ2N	Soporte de espaldas SVÄRTA, acabado con sublogna. Capacidad carga 200 kg. galvanizado 400x200x30 mm.	4,00	5,00	20,00	
Ruedas	AMQ2N	MPower Lot de Ruedas Gravitales, Ruedas de transporte para Carritos Muebles (125mm)	1,00	25,00	25,00	
Muebles	KAMUTN	Hanaka Silla de tela y madera. Colores varios	2,00	13,50	27,00	
Finos	SEA	Lámpara de trabajo plateada	4,00	7,00	28,00	
Uso de Madera	LEKJY MEKLU	Lista de madera de abeto en capilar de 2.826x347 mm.	3,00	3,75	11,25	
Opcion almacenaje	SEA	Almacenaje 6 compartimentos, color	1,00	3,00	3,00	
Opcion almacenaje	SEA	Almacenaje bonitos, cama	1,00	3,00	3,00	
Opcion almacenaje	SEA	Cesta coligera, tamaño grande	1,00	3,00	3,00	
Opcion almacenaje	SEA	Cesta natural	1,00	6,00	6,00	
Opcion almacenaje	SEA	Resistentes, colores variados	3,00	6,00	18,00	
				Σ	247,25	247,25

FJELLSE

LISTA DE MATERIAS PRIMAS

Uso	Ref	DESCRIPCIÓN	Unidad	Cantidad	Precio Unitario	Precio Total
Cama	SEA	FJELLSE Estructura cama de gino 207x97x30 cm.	1,00	29,00	29,00	
Cajón	SEA	BEDDINGE Caja de cama, gino, para 105x20x10 cm.	1,00	15,00	15,00	
Ruedas	AMQ2N	MPower Lot de Ruedas Gravitales, Ruedas de transporte para Carritos Muebles (125mm)	1,00	25,00	25,00	
Finos	SEA	Lámpara de trabajo plateada	4,00	7,00	28,00	
Terminar	LEKJY MEKLU	Algoje perforado en L, fabricado en acero laminado frío con acabado galvanizado de color gino. Medidas: 27 x 27 cm (altura x ancho x espesor). En colores de 2 m.	1,00	6,25	6,25	
				Σ	103,25	103,25

29 Conde de Casal, Madrid. Desk fabrication costs.

30 (overleaf) Rendering of Conde de Casal's coworking desks.



PUESTOS FIJOS

Ale

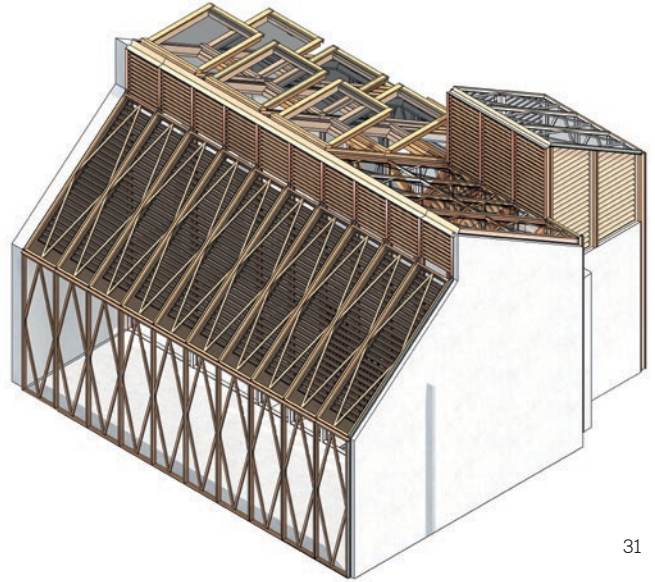


4. Which environmental principles can be applied to the design of coworking spaces, considering that many operate in existing buildings?

Solar Chimneys and Air Flow

Izaskun Chinchilla Architects have a long-term commitment to demonstrating that air-conditioning should be completely avoided, even in Mediterranean cities, given its negative impact on environment and health. Passive and vernacular solutions, like solar chimneys, have proven their efficiency in past projects. For example, Chinchilla introduced 42 solar chimneys at Castillo de Garcimuñoz (Chinchilla 2014) where the supporting air-conditioning system was required only for ten days in 2019.

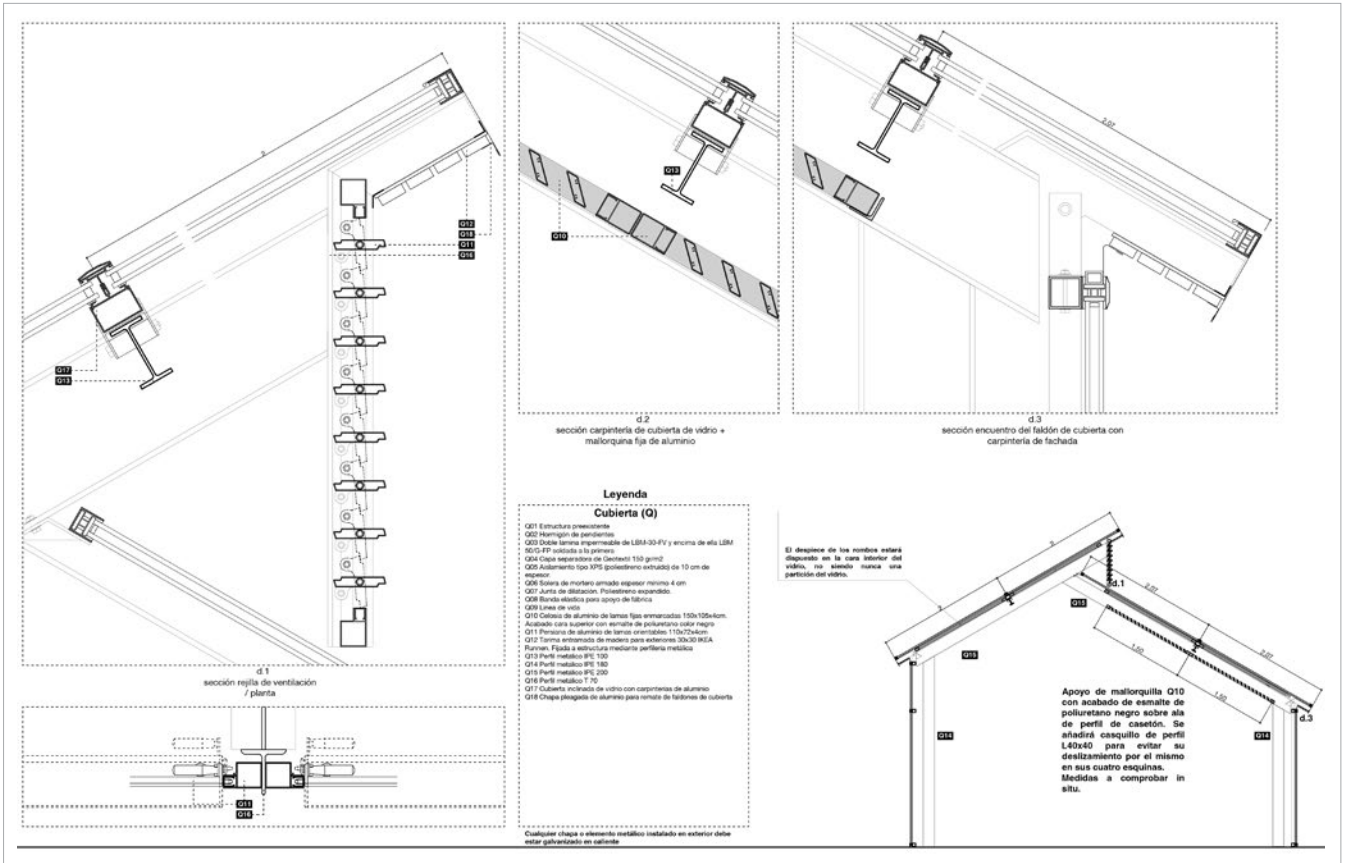
The solar chimney at Clementina enables natural ventilation and refrigeration of the entire building (31-2). Chinchilla covered the staircase with a metal-frame gable roof that features a large south-facing glass surface. Immediately under the glass is a black lacquered slat panel, which is heated throughout the day by the sun. Air between the glass and panel creates an upward draft along the staircase, which exits through a ventilation grille on the roof. Interior glass walls do not meet the ceiling and allow air to flow through the entire building.



31

31 Rendering of the preliminary solar chimney for Clementina, Barcelona.

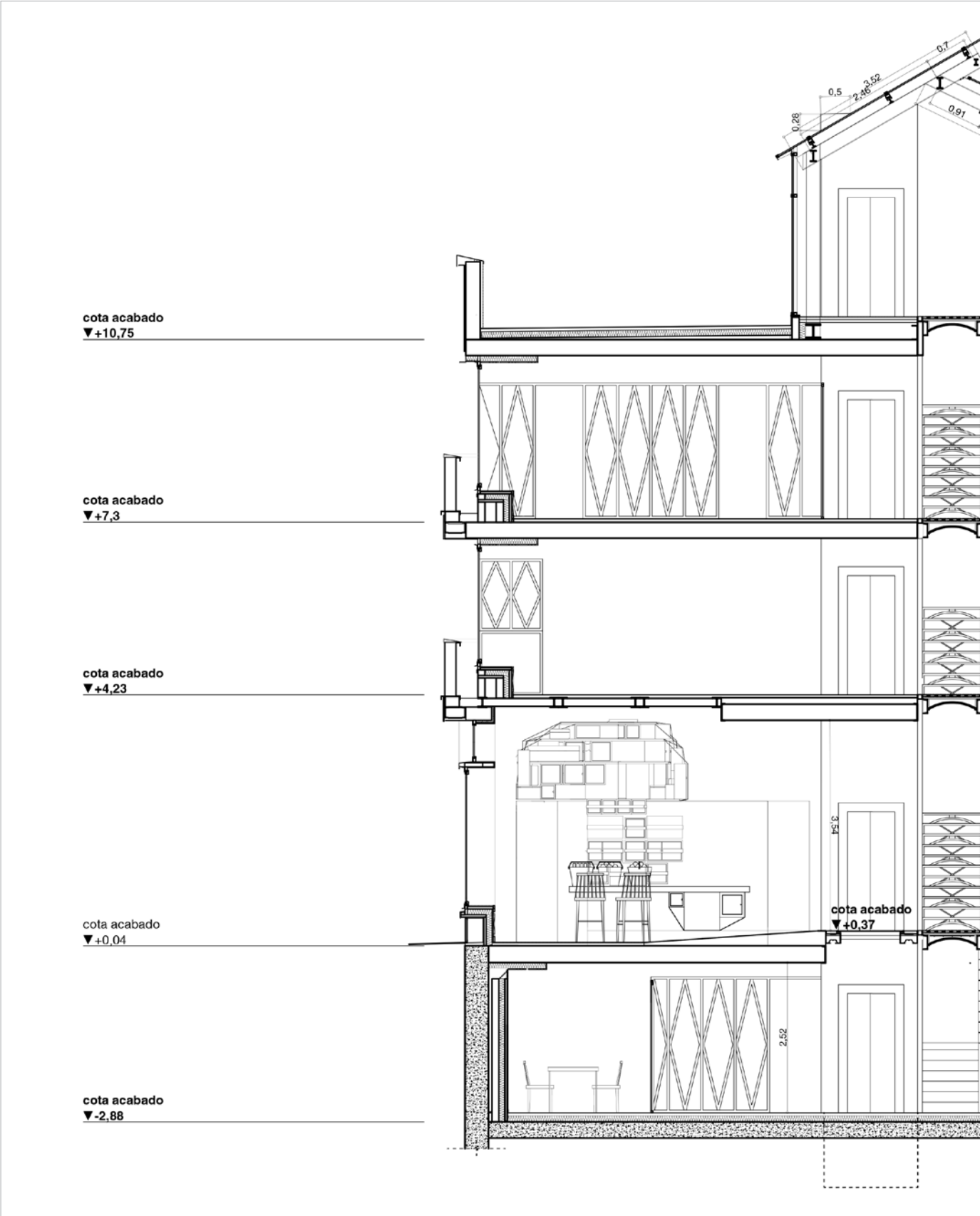
QUESTIONS



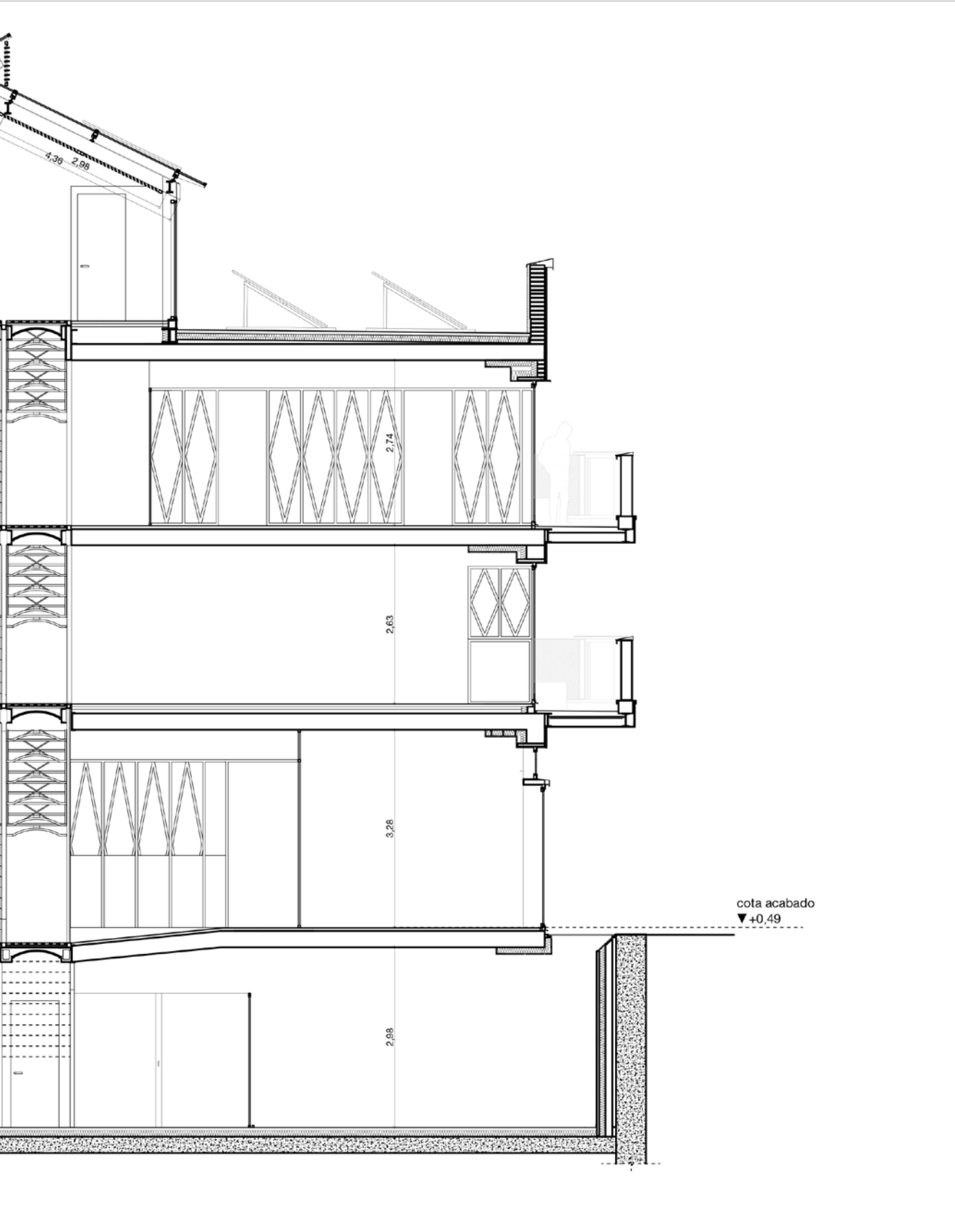
32

32 Clementina, drawing of staircase cover with solar chimney and canopy section.

33 (overleaf) Clementina, drawing of general section.



QUESTIONS



Energy Efficiency

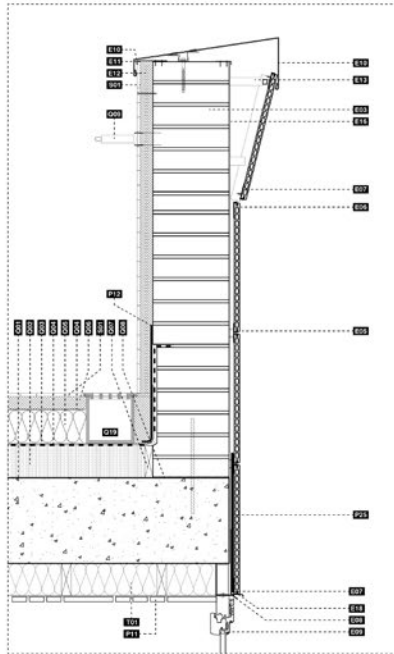
Without a solar chimney, the estimated refrigeration energy consumption for the building is 6,285 kWh/year; with a solar chimney this decreases to 4,525.2 kWh/year, ultimately reducing CO₂ emissions by approximately 300 kg.

Clementina has two solar thermal panels to provide hot water. Nine PV panels, with an estimated annual production of 1,210.65 kWh, save 2,361 kg in CO₂ emissions. To install these panels without compromising leisure space on the roof terrace, Chinchilla designed a metal-frame canopy, which also protects a small kitchen from the elements.

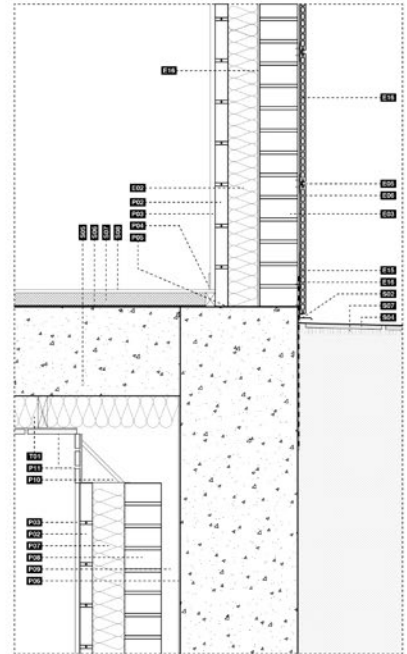
The ventilated façade system leaves an air chamber between the cladding and inner sheet, preventing thermal bridges and condensation **(34)**. This system protects the inner sheet as well as the structure, reducing the risk of pathologies caused by weather exposure. The system has a transmittance of 0.30 W/m²-K. Cellulose insulation is used because of its ecological credentials. It has a thermal conductivity of 0.040 W/mK and a thermal capacity of 2 kJ/kg.

**DETALLE DE FACHADA TRADICIONAL
SEGÚN SISTEMA FRONTEK**

0 0.5 1 m
Escala 1:10



- Leyenda**
- Cubierta (C)**
- C01 Estructura preexistente
 - C02 Fibras de panderos (de mínimo espesor según)
 - C03 Impermeabilizante PVC con doble capa (S4, una superior y otra inferior)
 - C04 Capa separadora de Cersivul 150 gr/m²
 - C05 Asfalto tipo XPS (poliestireno extruido) de 10 cm de espesor
 - C06 Sistema de drenaje armado espesor mínimo 4 cm
 - C07 Junta de dilatación (homogeneamente expandida)
 - C08 Banda elástica (para apoyo de bandeja)
 - C09 Lana de vidrio
 - C10 Sumbidos metal de zinc
- Envoltorio (E)**
- E01 Perfil de aluminio Sistema Frontek Montage Plus
 - E02 Lana de roca hidráulica Rockwool con velo negro con fijaciones según recomendación de proveedor
 - E03 Perfil de aluminio con aislamiento
 - E04 Manta de aislamiento Sistema Frontek Montage Plus sobre junta de neopreno para juntas de paneles térmicos
 - E05 Fijación (Chapas [perforaciones]) Sistema Frontek Montage Plus con sello neopreno
 - E06 Perfil de aluminio extruido Sistema Clasic Frontek
 - E07 Fijación (Chapas [perforaciones]) Sistema Frontek Montage Plus con sello neopreno
 - E08 Chapas de aluminio remate de fachada unidas con carpentería
 - E09 Carpintería metálica
 - E10 Remate superior de aluminio de una única pieza en todo el acabe con inclinación de 12°
 - E11 Remate de aluminio con drenaje y salida
 - E12 Muro con tela de galvanizado en parte superior de perfil para aliviar el viento
 - E13 Remate para acabado de pisa exterior con inclinación de 14°
 - E14 Chapas de aluminio remate inferior de fachada
 - E15 Impermeabilizante
 - E16 Entabecado hidrófugo como barrena de vapor
 - E17 Acabado de espuma de poliuretano proyectado
 - E18 Remate de fachada ventilada con chapas de aluminio
- Suelos (S)**
- S01 Acabado de cubierta. Píezas cerámicas antideslizante.
 - S02 Impermeabilizante
 - S03 Asfalto tipo XPS (poliestireno extruido) de 10 cm de espesor.
 - S04 Pavimento exterior vía urbana.
 - S05 Estructura preexistente
 - S06 Lana de impacto 5cm
 - S07 Suelo de hormón armado espesor mínimo 4cm
 - S08 Suelo interior
 - S09 Muro con canalita para recogida de agua de cámara bufa
- Paredes (P)**
- P01 Cáscara de zinc
 - P02 Fabrica en alfiler armado
 - P03 Entabecado interior, ver acabado interior
 - P04 Bloques
 - P05 Bando elástica
 - P06 Perfil impermeabilizante permeable al vapor de agua
 - P07 Lana de roca hidráulica Rockwool con fijaciones según recomendación de proveedor
 - P08 Fabrica de medio pisa
 - P09 Cámara bufa
 - P10 Escalera metálica 15x15
 - P11 Muros de exterior 15x15 atornillada e inoxidable
 - P12 Tela armada sobre impermeabilizante para permitir fijación de muros
 - P13 Asfalto de aluminio de 10mm
- Techo (T)**
- T01 Lana de roca Rockwool con fijaciones según recomendación de proveedor con chapas de acero de fierro con acabado dorado
 - T02 Muros de exterior 15x15 atornillada e inoxidable
- Cualquier chapa o elemento metálico instalado en exterior debe estar galvanizado en caliente.*



34 Clementina, section drawing of the ventilated façade.

Daylight

At Clementina, the carefully designed façade system provides a saving of 4,136.25 kWh/year, reducing CO₂ emissions by 500 kg/year. The façade and plan distribution of the building is based on a technical study of natural light, seeking optimum levels for a given activity. Working areas are positioned at the northern and southern façades, with a solar chimney designed to flood the central area with light. To resolve excessive reflection on the southern façade, the architects created a small room for reading behind the balconies. Worktables are set back to avoid direct light and external blinds provide additional control **(36-7)**. Patterned ceramics, inspired by the modernist housing in the area, enhance the domesticity of the space, and blankets, cushions and plants improve comfort and acoustics.

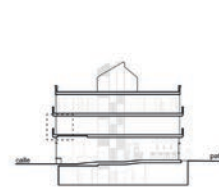
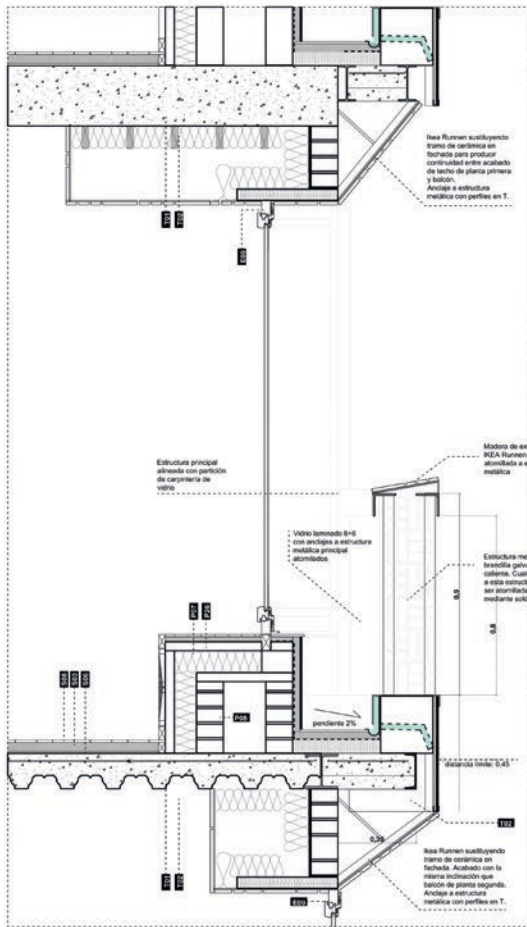
At Nida, the central space has been entirely covered in glass. A system of traditional Spanish wood blinds, controlled by users, helps to reduce reflections and overheating. Natural light provides 87% of light required during the year.

35 Clementina, north façade balcony technical detail.

36 (overleaf) Clementina, south façade balcony technical detail.

37 (overleaf) Clementina, drawing of south façade sunblind system.

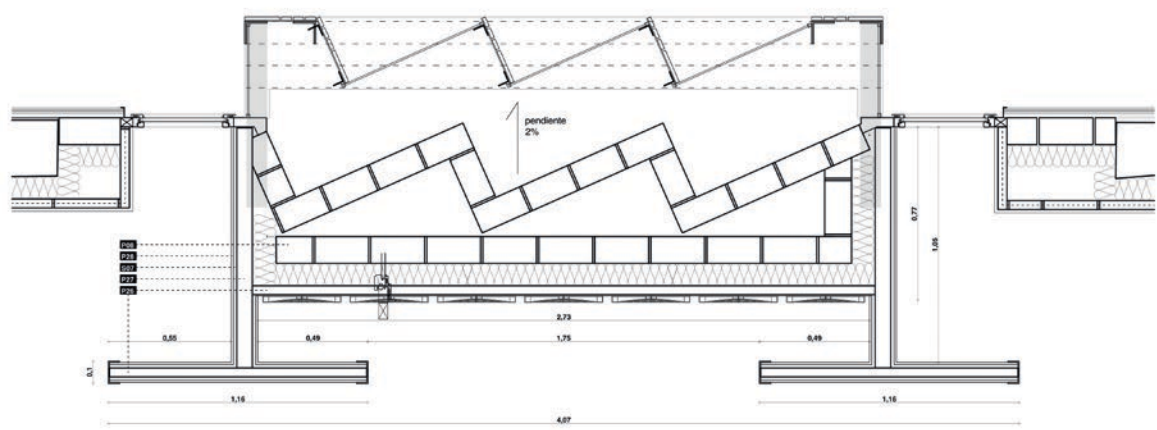
QUESTIONS



Leyenda

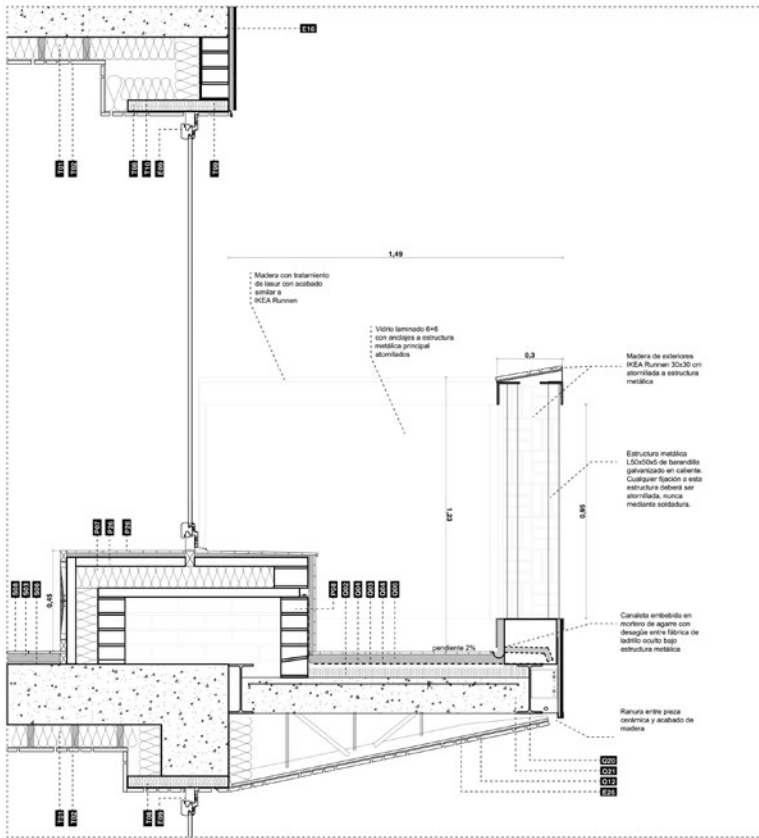
- | | |
|--|---|
| Cubierta (O)
O01 Estructura precastora.
O02 Hormigón de pendientes.
O03 Impermeabilizante.
O04 Capa separadora de Geotextil 140 g/m ² .
O05 Asfalto tipo 375 g/centimetro cuadrado de 10 cm de espesor con barrena de agua a cara inferior.
O06 Sotera de mortero armado espesor mínimo 4 cm.
O07 Azulejo de dilatación. Poliestireno expandido.
O08 Banda alébrica.
O12 Torno terminado de madera para exteriores 20x30 NGA Rumien Fijado a estructura mediante perfiles a metálica.
O20 Perfil metálico IPE 200.
O21 Nuevo forjado de chapa colaborante 10+6. | Suelos (S)
S01 Cámara de aire.
S02 Impermeabilizante.
S03 Sotera de mortero armado espesor mínimo 4 cm.
S04 Pavimento exterior vía urbana.
S05 Estructura precastora.
S06 Laminas de engasto 50mm.
S07 Mortero de agerite y nivelación.
S08 Sotado interior.
S09 Perfilera de aluminio para fijación de |
| Envolvente (E)
E01 Perfil de aluminio Sistema Primer Member Plus.
E02 Lana de roca Rockwool Fluocelul con velo negro con fijaciones según recomendación de proveedor.
E03 Pie de ladrillo hueco sobre O08 fijado al forjado con mortero.
E04 Membrana de reacción Sistema Protex.
E05 Mantepe Plus sobre parte de reemplazo para lana de roca Rockwool.
E06 Fijación (espigas) primer miembro.
E07 Puntos Montage Plus con anclaje negro.
E08 Chapa de aluminio remate de fachada con finis carpintería.
E09 Carpintería de aluminio.
E10 Remate superior de aluminio de una única pieza en todo el alzado con inclinación de 10°.
E11 Remate de aluminio con granito y sellado.
E12 Mortero con tela de vidrio sujeto en el exterior de perfil para alinear el conjunto.
E13 Injeción para sellado de junta continua con inclinación de 14°.
E14 Chapa de aluminio remate interior de fachada.
E15 Impermeabilizante.
E16 Enfoscado hidráulico como barrena de vapor.
E17 Aislamiento de espuma de poliestireno proyectado.
E18 Perimete de fachada ventilada con chapa de aluminio.
E19 Regulador de tensión perfil metálico 180.
E20 Separación de paredes exterior e interior - de barandillo: perfil metálico L40.
E21 Perfil.
E22 Estructura metálica de barandilla galvanizada en caliente. Cautela fijación a esta estructura deberá ser estudiada, nunca mediante soldadura.
E23 Chapa de aluminio de "marco exterior" tipo compuesto.
E24 Mortero de agerite en masa.
E25 "Brazo largo".
E26 Estructura metálica a partir de perfiles con reconocidos y dispares para recibir esfuerzos tipo Ige D12.
E27 Perfil metálico Omega 20mm anclada a pavimento interior. | Paredes (P)
P01 Cámara de aire.
P02 Fábrica en espesor armada.
P03 Enfoscado interior, ver alzado interior.
P04 Rodapié.
P05 Banda alébrica.
P07 Lana de roca Rockwool con fijaciones según recomendación del proveedor (en cámara fully habitable).
P08 Fábrica de medio pie.
P09 Fábrica cerámica recta 20x10x4.
P27 Fábrica ladrillo hueco Ton.
P28 Revestimiento cerámico. |
| Techos (T)
T01 Lana de roca Rockwool con fijaciones según recomendación de proveedor con chapa de acero de 1mm con acabado dorado.
T02 Mortero de exteriores 15x15 atomizada a mortero de madera.
T03 Acabado interior de forjado.
T04 Perfil de acero galvanizado 10x62x4.
T05 Aluminio.
T06 Placa de acero 150x150x4.
T07 Perfil de acero galvanizado 10x62x4.
T08 Mortero de una espesor 5cm.
T09 Cargadero metálico.
T10 Lana de roca perfil medio receptor de perfil metálico 20x para espigas de perfil. | Estructura principal:
- Perfil laminado L100x100x8
Estructura vidrios:
- Perfil laminado L50x50x5
Perfiles galvanizados en caliente y soldados en taller previamente a la galvanización. Comprobar medidas in situ |

escala 1:15 Balcón Norte: SECCIÓN TRANSVERSAL 2709/2018



escala 1:15 Balcón Norte: PLANTA

Estructura principal:
 - Perfil laminado L100x100x8
Estructura vidrios:
 - Perfil laminado L50x50x5
Perfiles galvanizados en caliente y soldados en taller previamente a la galvanización. Comprobar medidas in situ



Leyenda

<p>Cubierta (C)</p> <ul style="list-style-type: none"> C01 Estructura presistente C02 Hormigón de panderas C03 G03 Impermeabilizante C04 Lana mineralizada de densidad 140 gr/m² C05 Adosamiento tipo XPS (policloruro de estireno) de 10 cm de espesor con sistema de vapor a la interior C06 Sólera de mortero armado espesor mínimo 4 cm C07 Junta de dilatación. Pulexterno expuesto C08 Banda elástica C09 Tierra entramada de madera para exteriores 30x30 XEA Plurimex Fijada a estructura mediante perfilado metálico C20 Perfil metálico IPE 220 C21 Nuevo fogado de chapa colorantera 10+8 <p>Envolvente (E)</p> <ul style="list-style-type: none"> E01 Perfil de aluminio Sistema Frontek Montepi E02 Lana de roca hidrófila Rockwool con velo negro con fijaciones según recomendación de proveedor E03 Pie de latón hueco sobre G09 fijado al fogado con rebolado E04 Malla de retención Sistema Protec E05 Malla de protección de resaca para retener el puente térmico E06 Espuma (después de ser instalado) Sistema Frontek Montepi Plus con acabado negro E08 Chapa de aluminio mate de acabado unido con saguiteria E09 Carpintería de aluminio E10 Tornillo superior de aluminio de una única pieza sin solda con inclinación de 10° E11 Tornillo de aluminio con galvanizado y sellado E12 Mortero con tela de galvano sujeta en perfil superior de pino para alinear el colgante E13 Llamero para anclaje de pieza cerámica con inclinación de 14° E14 Chapa de aluminio mateada inferior de fachada E15 Impermeabilizante E16 Embudo hidrófilo como barrera de vapor E17 Revestimiento de espuma de poliuretano proyectado E18 Revestimiento de fachada ventanera con chapa de aluminio E19 Separación de toldos: perfil metálico F10 E20 Separación de toldos: perfilado a estructura de aluminio, perfil metálico U40 E21 Suelo E22 Estructura metálica de base de aluminio galvanizado en caliente. Cualquier fijación a esta estructura deberá ser atornillada, nunca mediante soldadura. E23 Chapa de aluminio de trapezoidal: tipo rompecorras E24 Mortero de aguja en masa E25 Mortero negro E26 Estructura metálica a partir de perforina con rebolados y diagonales para evitar el pandeo para sur C12 E27 Perfil metálico omega 20mm atornillada a paramento vertical 	<p>Suelos (S)</p> <ul style="list-style-type: none"> S01 Acabado de cubierta. Pisos cerámicos antideslizantes S02 Impermeabilizante S03 Sólera de mortero armado espesor mínimo 4cm S04 Flujante exterior vía urbana S05 Estructura presistente S06 Lamina de impacto 50mm S07 Mortero de aguja y nivelación S08 Suelo interior S09 Perfilado de aluminio para fijación de <p>Paredes (P)</p> <ul style="list-style-type: none"> P01 Carpintería de aluminio P02 Fachada sin espesor armada P03 Enticido interior, ver acabado interior P04 Rocapi P05 Suelo elástico P07 Lana de roca Rockwool con fijaciones según recomendación del proveedor (en cámara lufa hidrófila) P08 Fachada de medio pino P09 Fachada exterior hueca 30x100x4 P27 Fachada latón hueco 7mm P28 Revestimiento cerámico <p>Techos (T)</p> <ul style="list-style-type: none"> T01 Lana de roca Rockwool con fijaciones según recomendación de proveedor con chapa de acero de 1mm con acabado dorado T02 Madera de exterior 15x15 atornillada a resaca de madera T03 Acabado interior de fogado T04 Perfil de acero galvanizado 60x60x4 T05 Perfilado de aluminio T06 Perfilado de aluminio 100x150x6 T07 Perfilado de aluminio 120x120x4 T08 Madera de pino espesor 5cm T09 Carpintero metálico T10 Lana de roca Rockwool receptor de perfil metálico F10 para espesor de toldo
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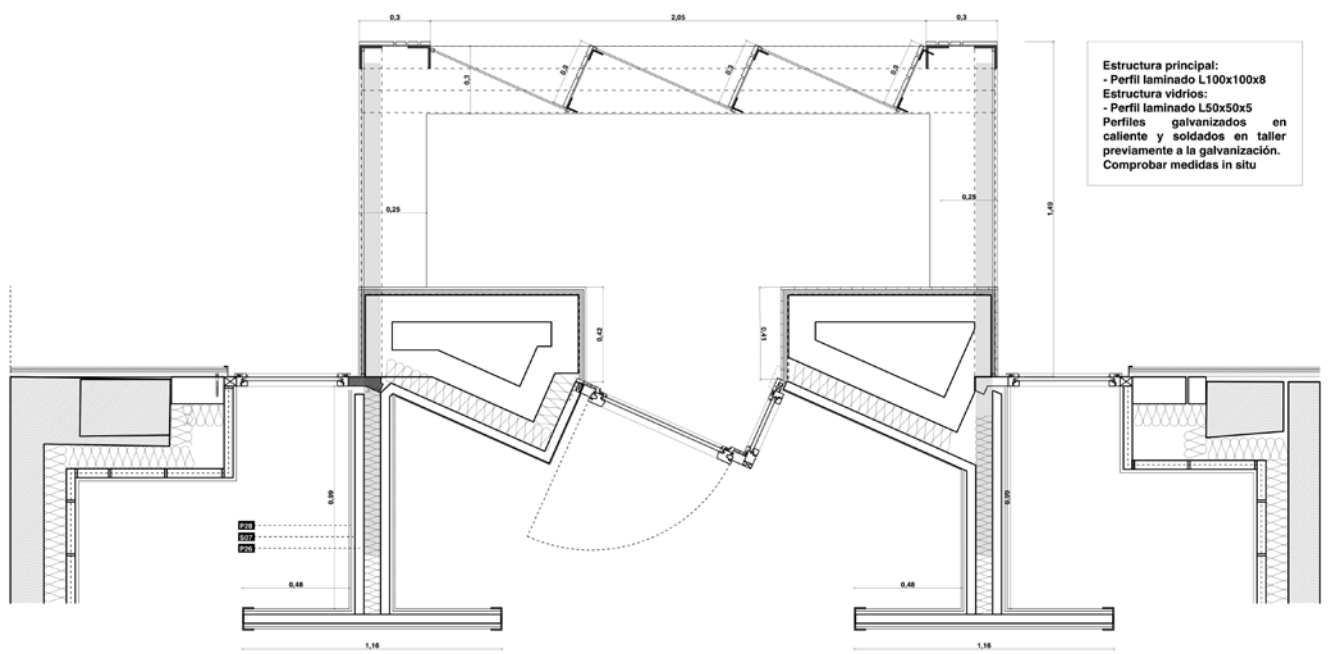
Estructura principal:
- Perfil laminado L100x100x8

Estructura vidrios:
- Perfil laminado L50x50x5

Perfiles galvanizados en caliente y soldados en taller previamente a la galvanización. Comprobar medidas in situ

Cualquier chapa o elemento metálico instalado en exterior debe estar galvanizado en caliente

escala 1:15 Balcón Sur: SECCIÓN BANCO



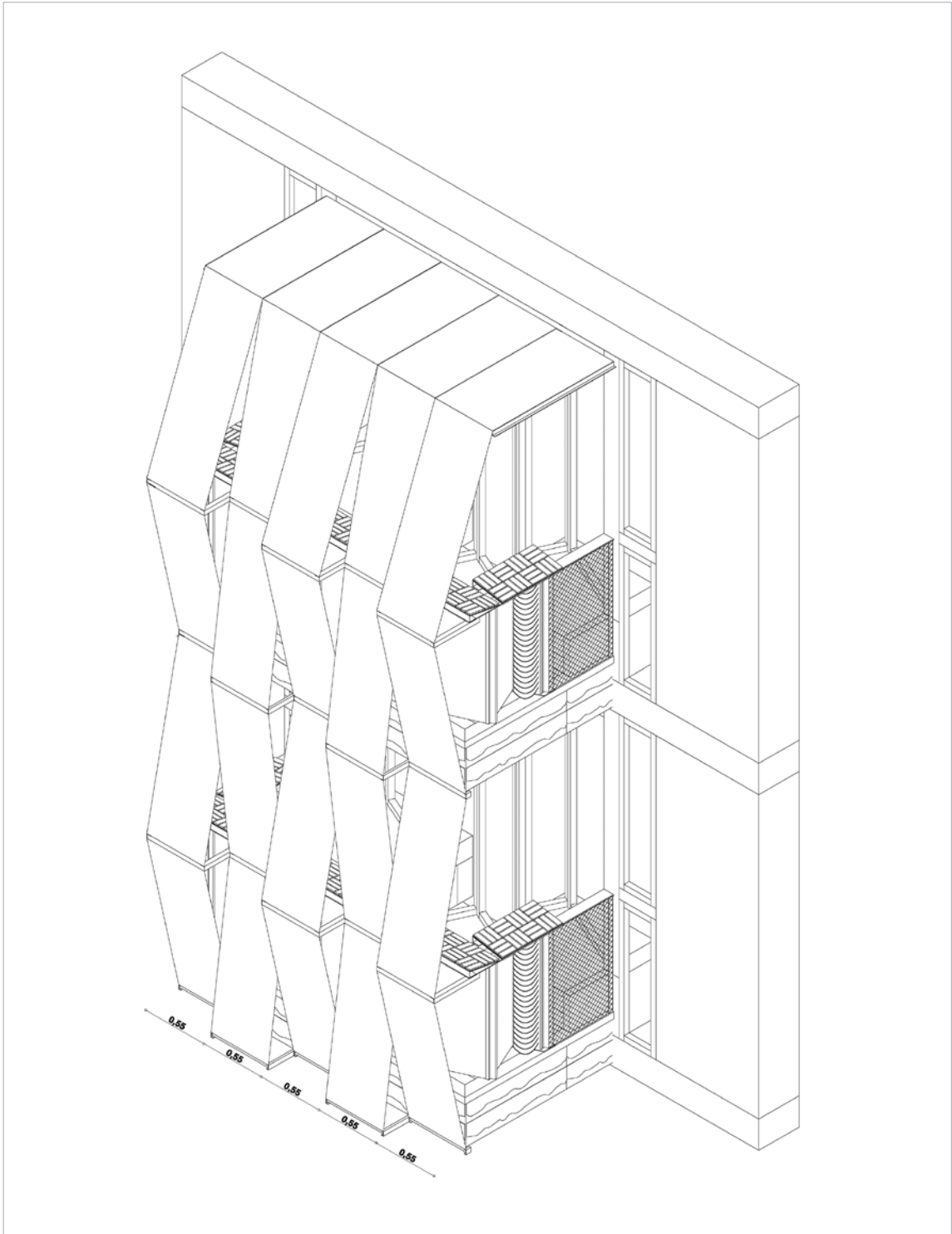
Estructura principal:
- Perfil laminado L100x100x8

Estructura vidrios:
- Perfil laminado L50x50x5

Perfiles galvanizados en caliente y soldados en taller previamente a la galvanización. Comprobar medidas in situ

escala 1:15 Balcón Sur: PLANTA

QUESTIONS



Lighting Strategy

At Clementina, the architects researched and developed a lighting strategy that radically differs from typical office lighting trends. Spanish regulations recommend 500 lx for office use, which is notably different from domestic environments where lighting rarely exceeds 100 lx. It would be incorrect, however, to assume that all office use requires 500 lx. Homogeneous lighting strategies make it difficult to understand a given space and can contribute to fatigue. For these reasons, the architects drew from their experience in museography design to strategically light objects and workspaces. They also used soft lighting for spatial boundaries.

In collaboration with ERCO, they applied 'qualitative lighting design' and decreased light levels to correspond with the function of each space:

- Rest space: max. 20 lx;
- Circulation and buffer zones: max. 20 lx;
- Skype rooms and areas for phone use: 20–50 lx;
- Computer workspace: 100 lx (with individual control of lighting facilities available).

On projects where lighting was already on a 500 lx grid, the architects introduced new circuits to create more differentiation (ERCO 2020).

QUESTIONS



38

38 La Nube, Madrid.
Ceiling and lighting detail.

Context

Chinchilla's extensive research on an adaptable approach to the design of coworking spaces began by researching the *Bürolandschaft* concept developed by Eberhard and Schnelle in the 1950s and 60s. The concept proposed the flexible and strategic provision of different 'clusters' within the workspace, an idea supported by recent research confirming the negative effect of open-plan offices on collaboration (Bernstein and Turban 2018).

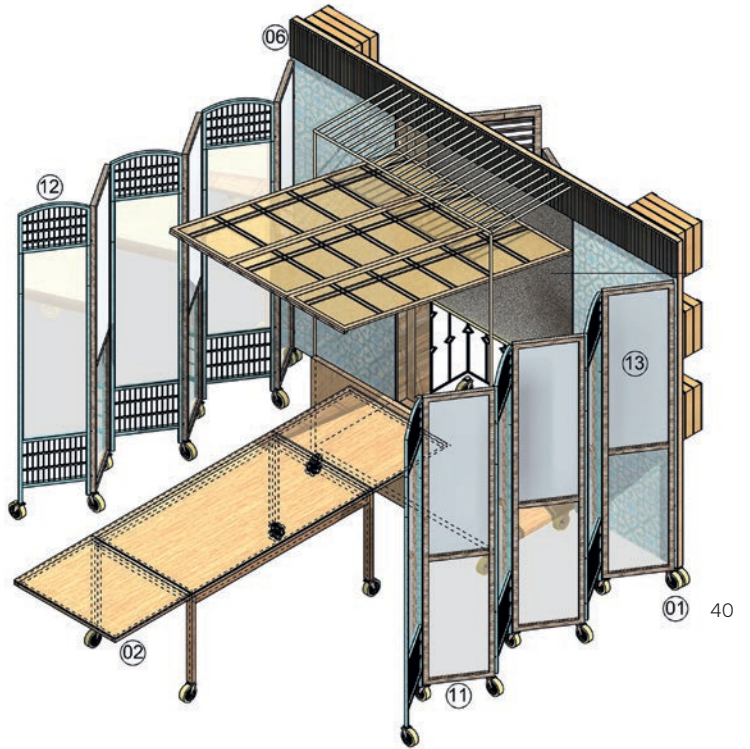
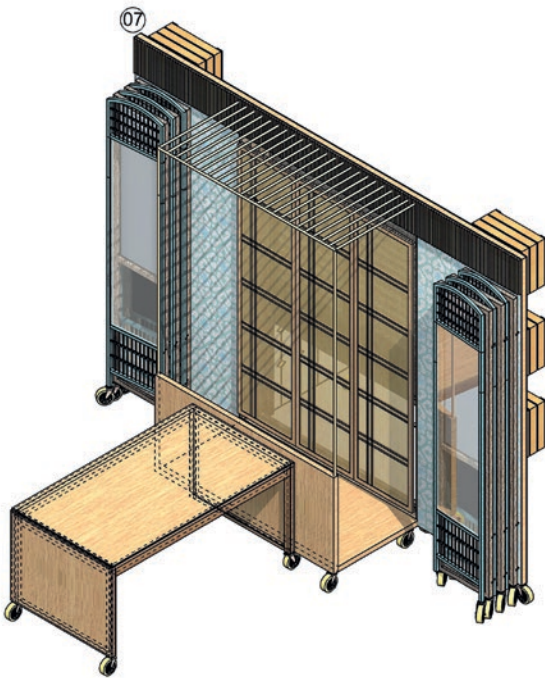
Chinchilla found that *Bürolandschaft*-like solutions would work well for smaller fixed areas used by small groups or individuals; while in larger spaces it would be beneficial to provide flexibility. Zygmunt Bauman's *Liquid Times: Living in an Age of Uncertainty* (2007) was influential on this approach. Centraal Beheer by Herman Hertzberger provided further inspiration: the project sought to create 'permanent adaptability' and captured 'the ambience of a community workplace' (Hertzberger 2016, pp. 5–7). Further to this, Chinchilla consulted studies that have attempted to identify how workspace layout affects patterns of work (Laing et al. 1998, pp. 21–4).

Chinchilla drew from Richard Sennett's studies of craft and collective cultures, particularly *The Craftsman* (2008) and *Together: The Rituals, Pleasures and Politics of Cooperation* (2012). Sennett proposes that 'makers' are spontaneously predisposed to collaborate, and the informality of their meetings can encourage exchange of skill and ideas (Sennett 2012, p. 237). Charles Jencks and Nathan Silver's manifesto *Adhocism* (1972), which opposes modernism and the preference for mass-produced items, was a point of reference; as were Maker Faire events, particularly in the development of Conde de Casal. Chinchilla also studied coworking movements such as Impact Hub and Jelly.



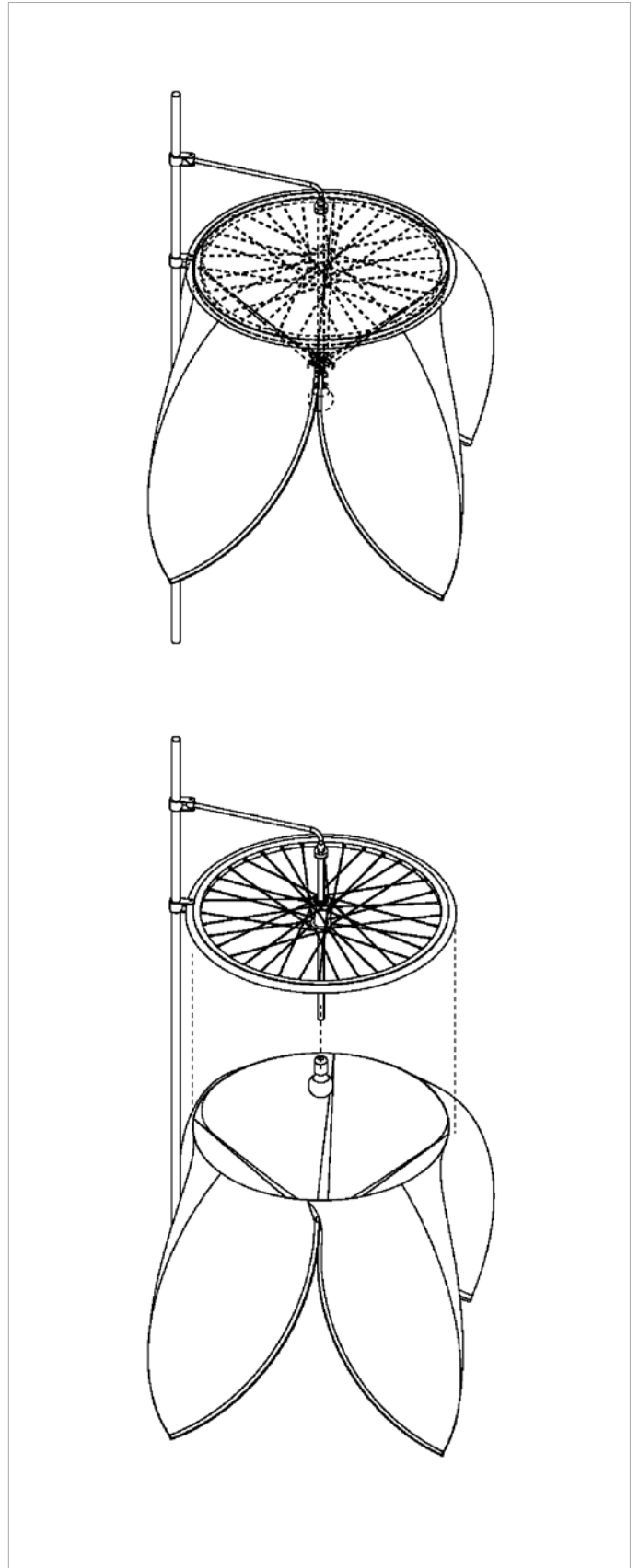
39

39 La Nube, pop-up meeting rooms.



40 Rendering of La Nube's pop-up meeting rooms.



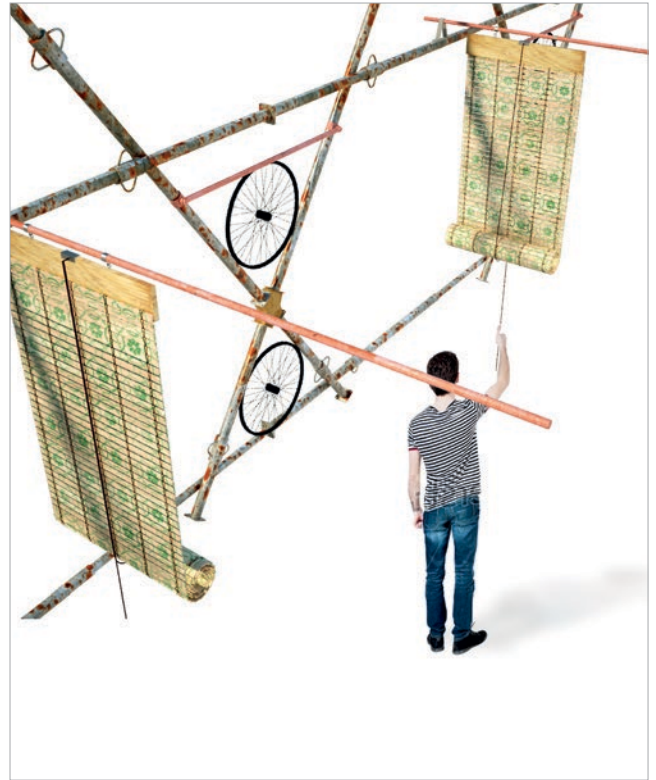


41 Clementina, Barcelona.
DIY flower lamp made using
recycled bike wheels.

42 Rendering of Clementina's
flower lamps.



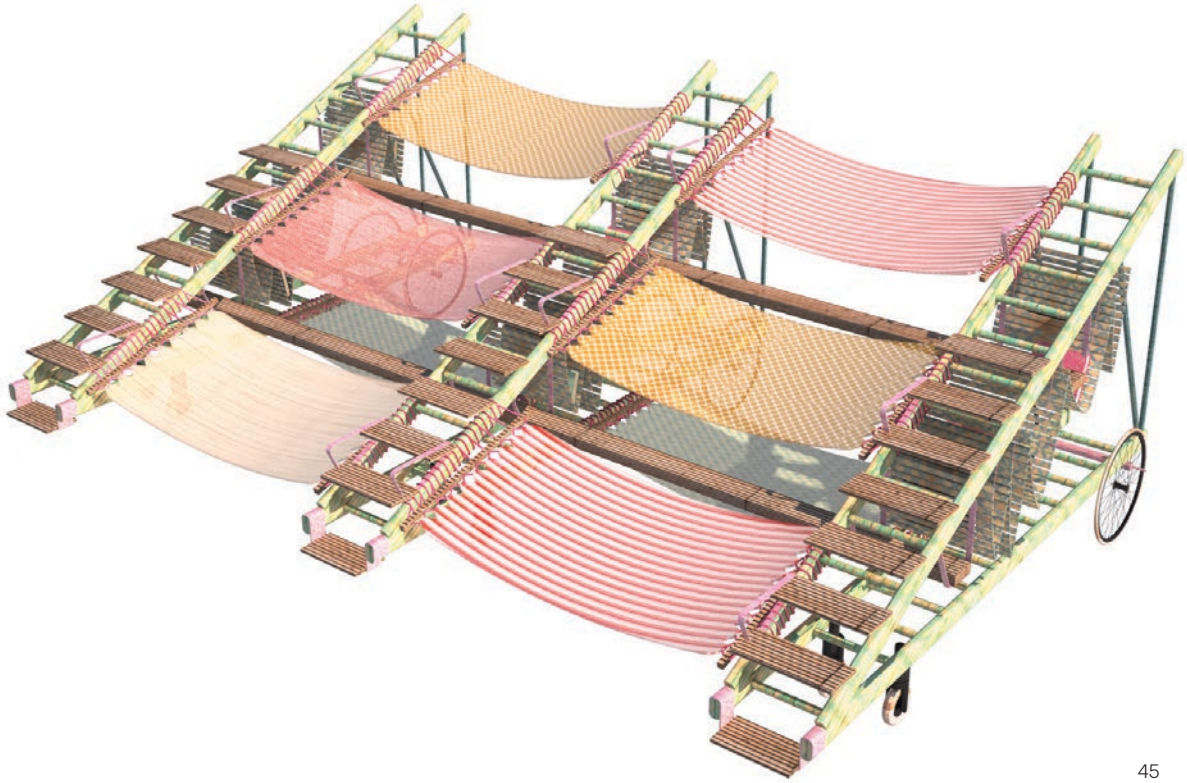
43



44

43 Nida, Madrid. Rendering of closed wood blinds.

44 Nida, rendering of open wood blinds.



45

45 Rendering of Nida's hammock bleachers.

46 (overleaf) Rendering of Nida's rest area.





Methodology

1. Space Syntax, interdisciplinary collaboration and user engagement

Izaskun Chinchilla Architects consulted user studies carried out at Utopicus Duque de Rivas and Utopicus Colegiata. They also referred to publications such as *Deskmag*, whose annual surveys reveal past, present and future trends in coworking including comprehensive statistics of the ages and professions of coworkers. With this information, the architects developed preliminary designs. Design proposals were further evaluated by the methodologies of Space Syntax. Different layouts were analysed to establish their potential impact on social behaviour (Sailer and McCulloh 2012). Close collaborations with specialist consultants, engineers, quality control and heritage officers were also important.

Chinchilla, who received a UCL Public Engagement Fellowship in 2015, used her expertise to consult with present and future users of coworking spaces, discovering that most shared a passion for travel. As a result, the reception area at Conde de Casal was designed to reference classic New York buildings, using IKEA bunk beds and brick wallpaper to recreate the city's distinctive fire escapes (47). The design of meeting rooms was inspired by Japanese architecture.

This approach proved popular with the coworking provider who led the Utopic_ School to hold cooking classes, seminars and other events inspired by these cities.



47

47 Conde de Casal, Madrid, 2016. Entrance and front desk.

2. Hacking with the coworking community

Izaskun Chinchilla Architects designed several pieces of versatile mobile office furniture that are memorable and unique. The hacked pieces of IKEA furniture can be further adapted and appropriated within the coworking space. For a detailed description of the advantages of hacking, see pp. 40–1.

To engage with the coworking community, a workshop was held at Utopicus Conde de Casal. The Utopicus community was invited to create a lamp by building and hacking various IKEA products (48). Participants were provided with a range of materials. They fabricated the lamp onsite and finalised it at home.



48

48 DIY lamp designed and assembled in a Utopicus School workshop at Conde de Casal, Madrid.

3. Low-cost materials and artisanal craftsmanship

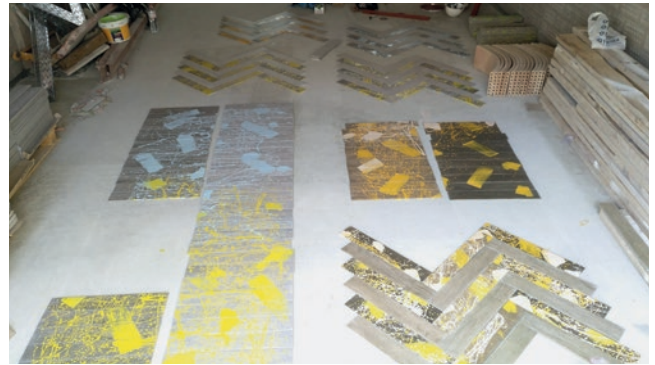
The team spent a significant portion of the budget on local craftsmanship, but were careful to source low-cost materials given financial constraints. Design details, such as embroidered stairways and painted floor tiles (50-1), helped to personalise interiors. Chinchilla conducted exhaustive research

to acquire ecological, low-maintenance ceramics of high artisanal quality.

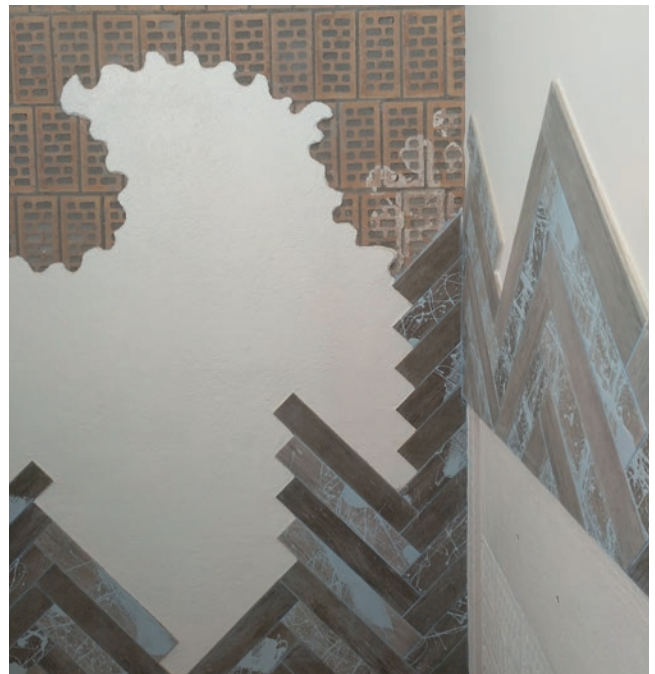
At Clementina, the architects used a brick and render finish, consisting of four layers, on the internal façades to lower costs. This was applied onsite by an experienced bricklayer. The design optimises the performance of cellulose insulation and enhances acoustic performance. Plaster with a white polyurethane finish was applied to the interior and Vives Laverton tiles were arranged in a herringbone pattern around the base of the wall for ease with cleaning and general maintenance (52).



50



51

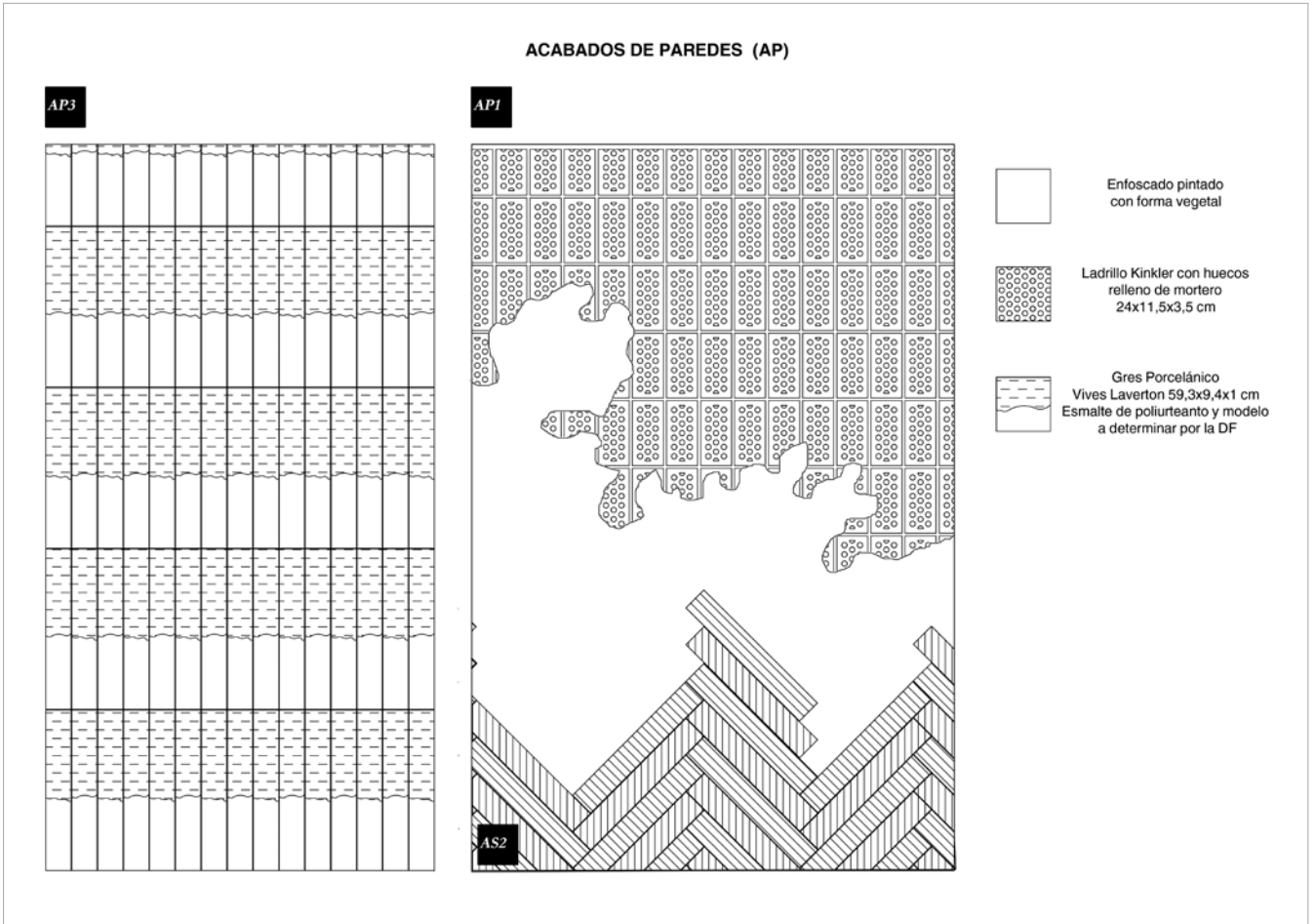


52

50 Clementina, Barcelona, 2019. Painting ceramic floor tiles by hand.

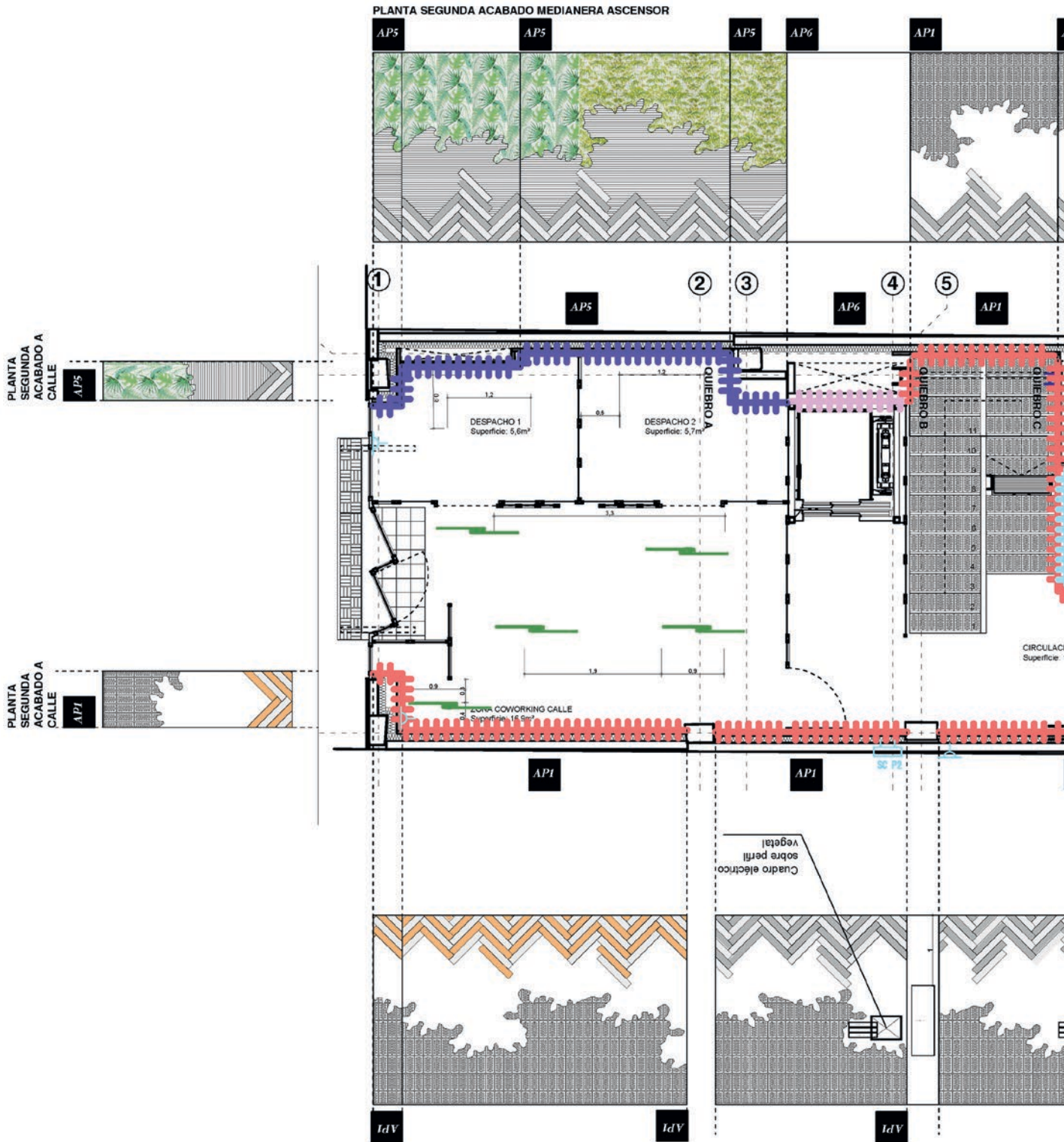
51 Clementina, hand-painted ceramic floor tiles.

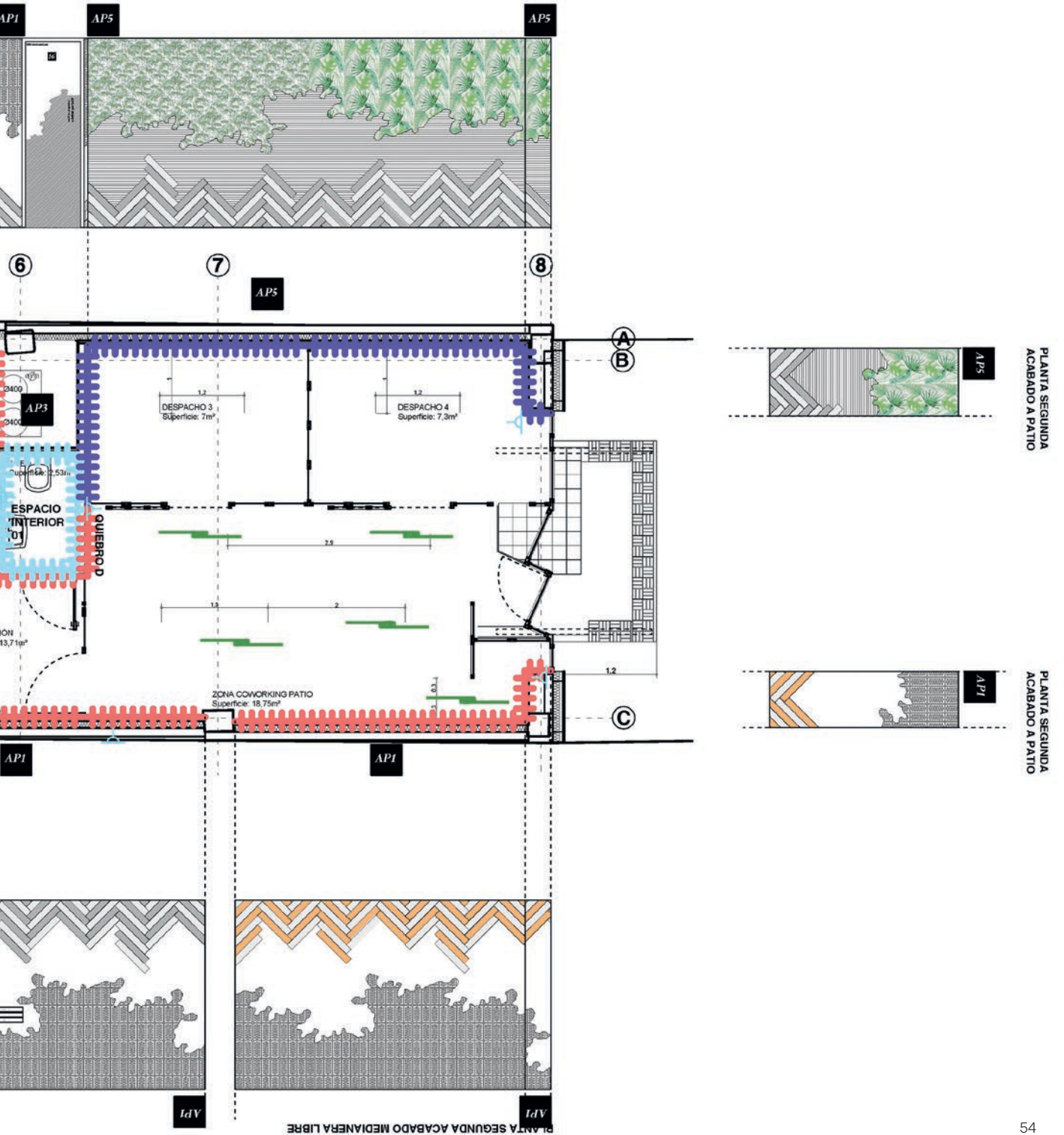
52 Clementina, plaster application following organic shapes.



53 Technical details for the different finishings at Clementina.

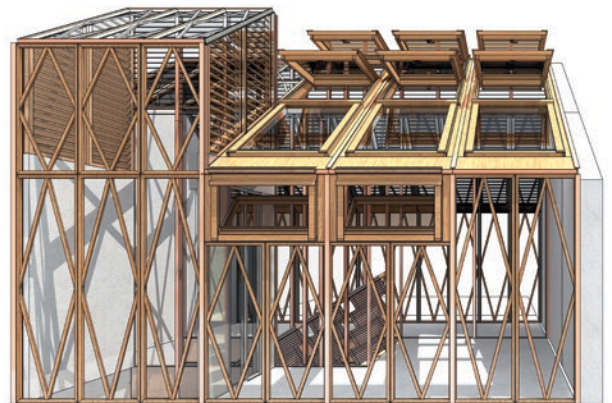
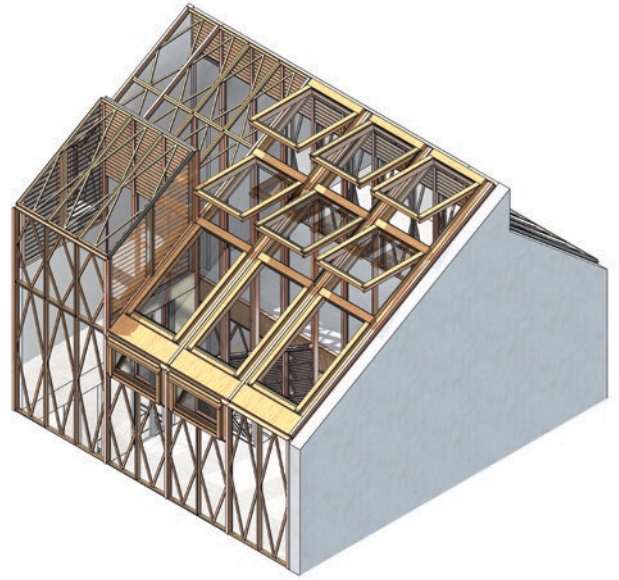
54 (overleaf) Drawing of Clementina's second floor interior wall finishings.





4. Passive climatic strategies and biophilic principles

Chinchilla employed biophilic design principles, considering each building as a living organism. Extensive research on the use of natural light, solar chimneys, air flow and other passive environmental strategies were carried out to responsibly connect the building with the environment. Colours and materials were chosen to reflect natural landscapes, while the architects sought to minimise emissions and energy consumption. A qualitative lighting design strategy was developed in collaboration with ERCO, see pp. 54–5.



55

55 Renderings of the preliminary glass cover for Clementina's staircase.

5. Post-occupancy evaluation

Utopicus runs sociological studies on new, previous and potential users of coworking spaces to determine their strategy. Chinchilla's team designed Utopicus Conde de Casal based on studies from previous Utopicus spaces. Surveys carried out as part of the post-occupancy evaluation of Conde de Casal then helped to inform the design of Utopicus Príncipe de Vergara, Utopicus Clementina and, to a degree, La Nube. Based on user responses, Príncipe de Vergara was designed to facilitate better project organisation, communication and time management.

Izaskun Chinchilla Architects have been based at Utopicus Conde de Casal for four years, which allows them to gather empirical data on spatial usage and preferences of the coworking community.



56



56 Príncipe de Vergara, Madrid (unrealised). Rendering detail of floating desk organisation system.

57 Clementina, Barcelona. Rendering of a preliminary design for the teacup lamp in the canteen.

57

Dissemination

Since 2016, Izaskun Chinchilla has presented her coworking projects in four print publications (*Co-Working Space Design*, *Deco Journal*, *NAN Arquitectura y Construcción* and *WA Magazine*). The series has also featured in over 30 architectural magazines and specialised websites, like *ArchDaily* and *Diseño Interior*. Two international group exhibitions have featured aspects of the series, at SCI-Arc in Los Angeles (2018) and La Cité de l'Architecture et du Patrimoine in Paris (2020).

Chinchilla has spoken about the projects at more than 30 US, UK and European institutions, including:

- La Cité de l'Architecture et du Patrimoine, Paris (2020)
- Madrid Design Festival (2020)
- Universidad Veritas, San José (2020)
- Karlsruhe Institute of Technology (2019)
- MEF University, Istanbul (2019)
- SCI-Arc, Los Angeles (2019)
- Caixaforum Barcelona (2018)
- Madrid Design Festival (2018)
- Oslo Association of Architects (2018)
- The Bartlett School of Architecture, UCL (2018)
- The Bilbao Fine Arts Museum (2018)
- CENDEAC, Murcia (2017)
- Colegio Oficial de Arquitectos de Madrid (2017)
- La Térmica, Málaga (2017)
- Stockholm Architects' Association (2017)
- The Royal Academy of Arts, London (2017)

Project Highlights

Owing to Chinchilla's unique design approach, which promotes the individual identity and emotional wellbeing of coworkers, these projects have featured in two international group exhibitions at SCI-Arc in Los Angeles (2018) and La Cité de l'Architecture et du Patrimoine in Paris (2020). La Nube was Izaskun Chinchilla Architects's winning entry in a closed architectural competition by the promoter Red.es. These projects have contributed to subsequent work, including the project Connective Nature that Chinchilla is developing with the wood manufacturer Finsa, which investigates how work and domestic spaces can be arranged to facilitate connectivity and how the presence of natural light, ventilation, live materials and views can promote comfort.



58

58 Conde de Casal,
Madrid. Meeting rooms.





60


59 Clementina, Barcelona.
Main façade featuring the
handpainted cladding system.


60 Conde de Casal,
Madrid. Desk area.


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