

agence Engasser + associés

# 104 accession and social housing in lvry-sur-Seine

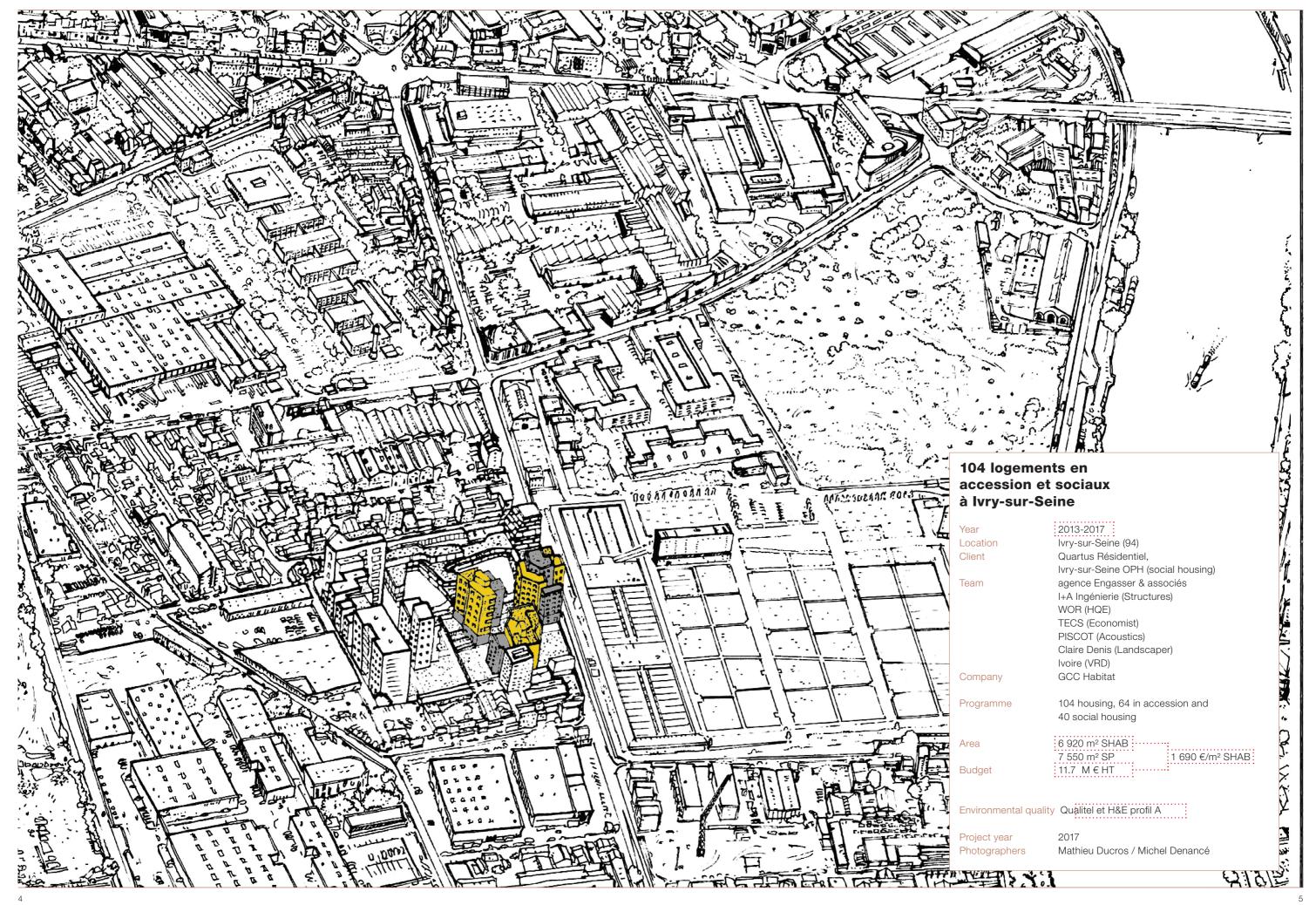


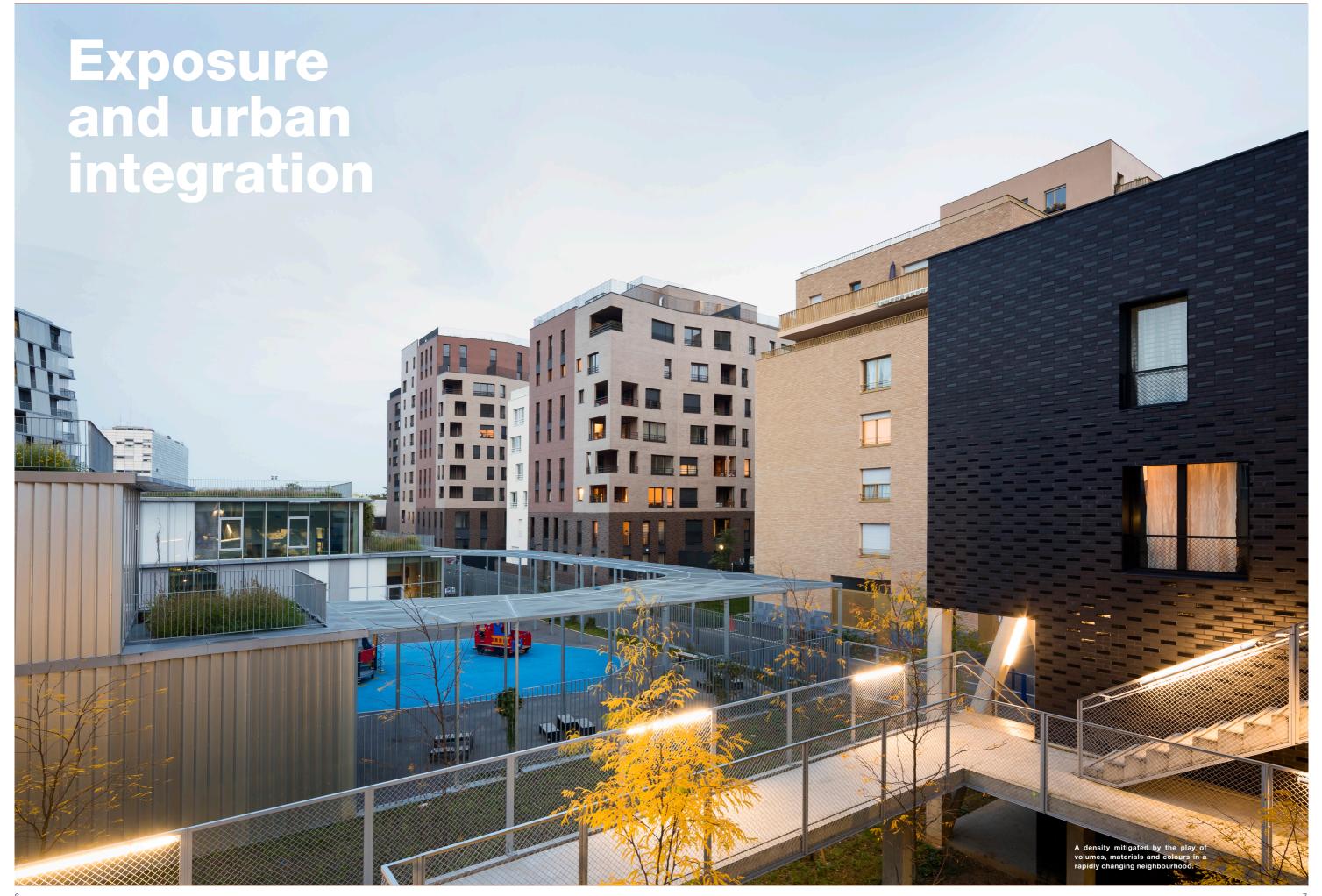
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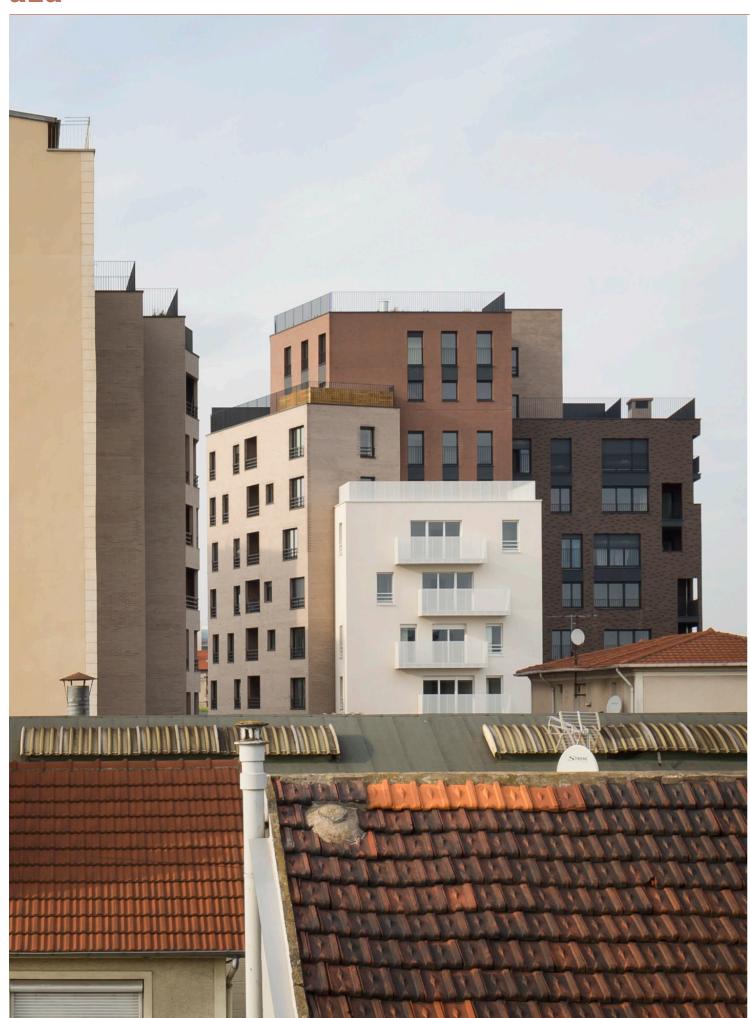
# 104 accession and social housing in lvry-sur-Seine











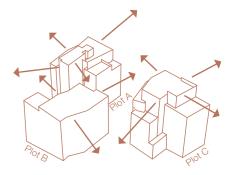
### The arrangement of 3 plots in staggered rows with visual openings

Avenue Jean-Jaurès.

underground parking garage between the neighbouring plot. The middle of the

The three buildings are staggered to the buildings a verdant setting. reduce the feeling of mass, create visual openings towards the centre of the project and take advantage of the views of the Seine.

The project is located in the lvry Located at the heart of a densely Confluence development zone at 74-76 populated neighbourhood, the project's design maximised landscaping and opens It contains 104 housing units: 64 for towards the outdoors and distances. ownership and 40 for social rental. Two of the buildings are lined up along There are three buildings with a shared the alley while the third is a pinion on project is generously landscaped to give

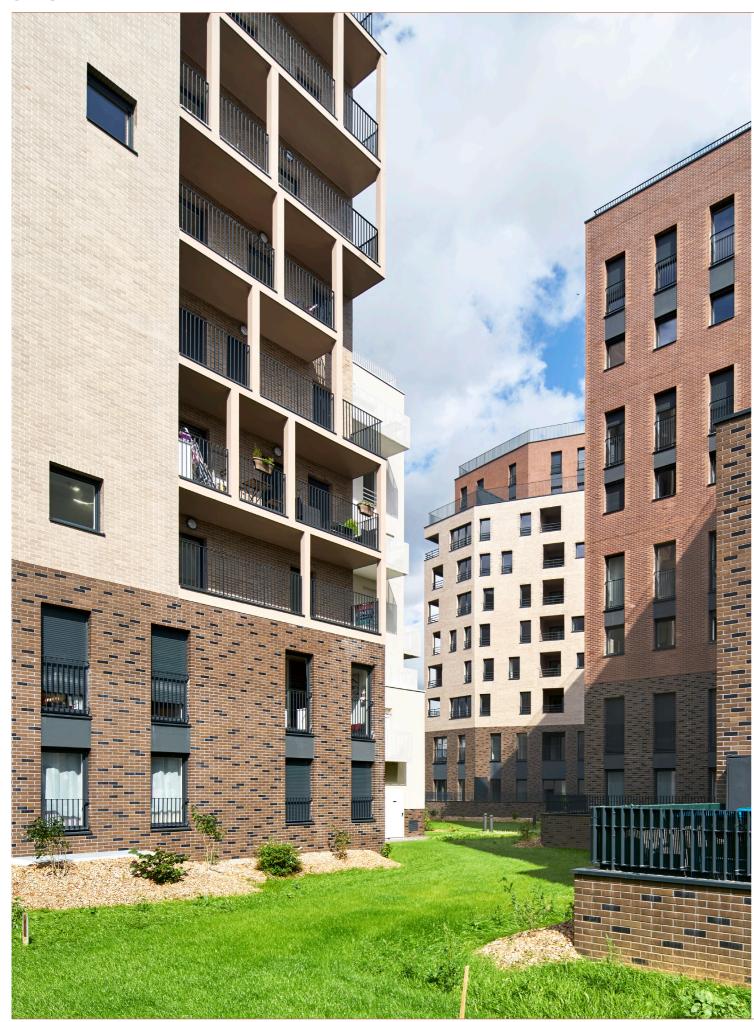


Multiple distant views



- A. Building A, 34 accession housing
- B. Building B, 30 accession housing
- C. Building C, 40 social housing
- 1. Vegetable roofs
- 2. Green roofs
- 3. Existing buildings
- 4. School

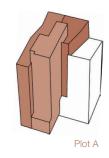




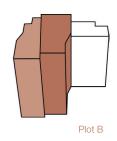
### **Fragmenting volumes** and constrasting materials

varying volumes, materials and colour in treatment and appearance. The base tones to create variations of scale and is split level because the land is located give them more slender proportions. near the Seine, thus on a flood plain. Volume fragmentation and variations in 
The access paths reproduce this same heights help reduce the perceived density. terracotta theme on the ground so as to Cladding the facades in terracotta, the create continuity with the facades. The shades of which range from brown to large windows in the bases are twinned beige, contrasts with the volumes in on two levels, thereby evoking large white. This play of materials reinforces the urban windows. breakdown while the ensemble of colours forms an elegant layering effect that gives rhythm to the facades.

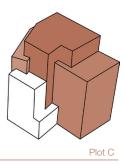
The three buildings are broken down into 
The plots are unified by identical bases



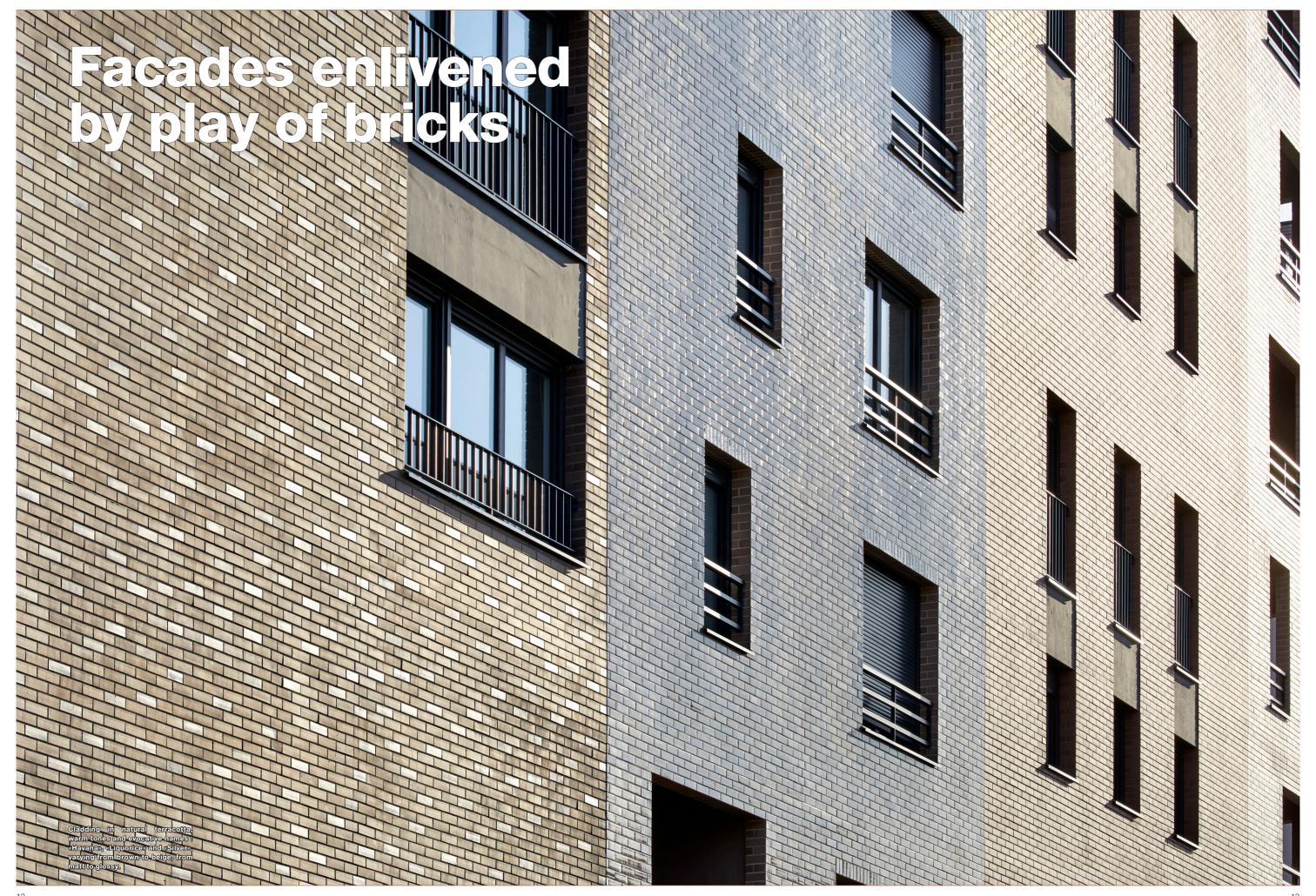












### **Graphic and** chromatic research

of «Havana» brown and enamelled and bricks. confers an identity to each of the plots.

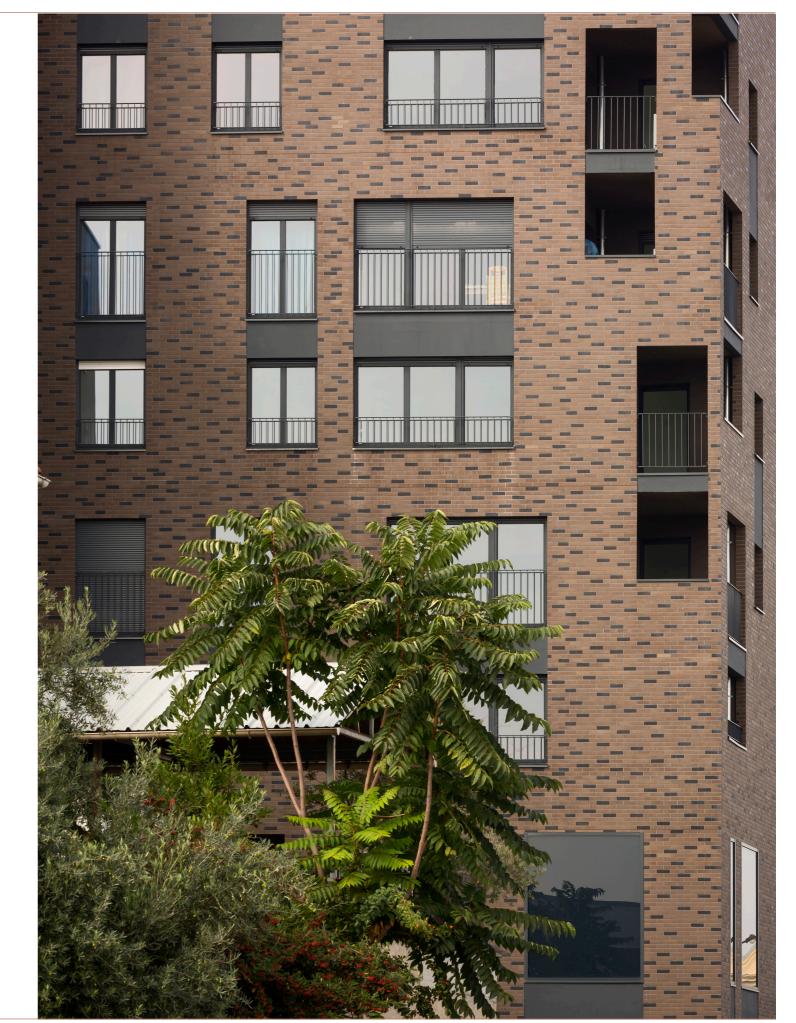
The buildings are clad in natural the same tone, a specificity of terracotta, terracotta by the Rairies Montrieux also makes it possible to highlight the company, varying tones from brown to material. The use of bricks in window beige, from matt to glossy. The dark, apexes, turned vertically as lintels of the matt brown «Montnoir» and «Liquorice» large windows and loggias, gives the

volumes from each other to compose the the design of the bases. «Montnoir» image of the buildings' unity. This shading bricks account for 20% of the surface and fit randomly between «Liquorice» The small variations between the bricks of bricks and enliven the façade.

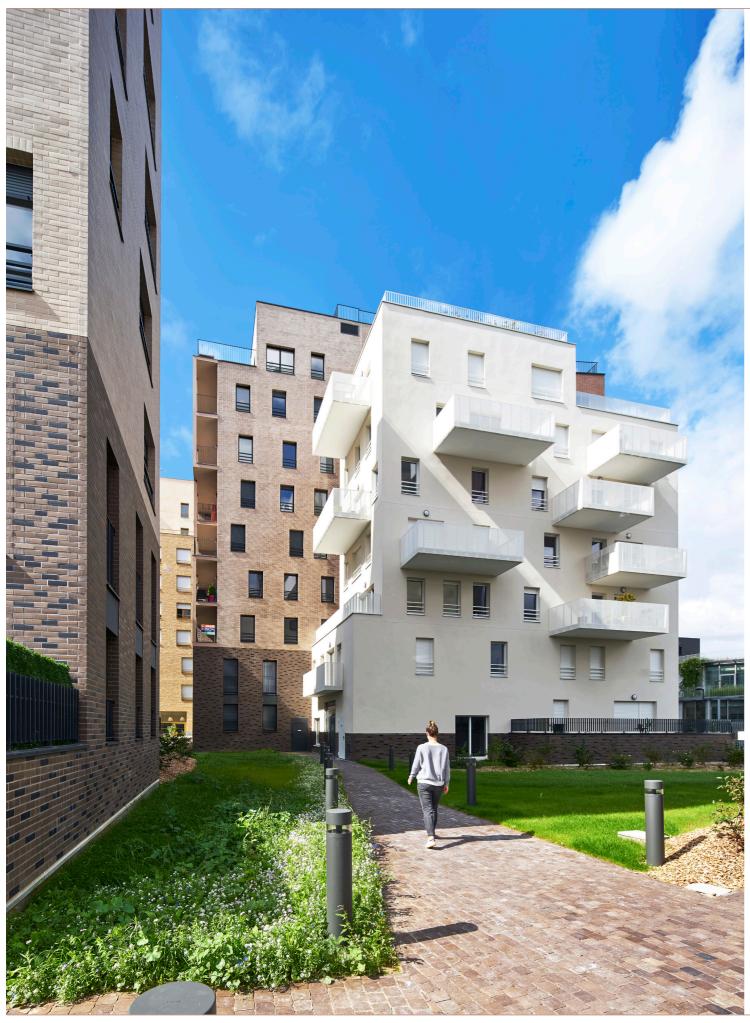
The pointing between the bricks is treated in charcoal grey. These details and colours are again seen in the treatment of the entry halls and garden walls and even in the pedestrian paths in the colours contrast with the variable shades illusion that the building is built entirely of centre of the plot. They are composed of «Liquorice» colour paving stones also clear «Silver» glossy beige, setting off the A play of dark-brick jointing strengthens from Rairies Montrieux. The juxtaposition of these elements contributes to creating an elegant, harmonious whole.











### A garden in the midle of the block

buildings are generously landscaped with shrubs, cornelian cherry, walnut trees, plants and trees. A lawn-covered garden bladder nut, buddleia, hornbeam, lilies, on Avenue Jean-Jaurès and the alley is privet hedges and high branch trees the main constituent of the alignment, such as pear and elm. The ground- and making it possible the gauge the depth slab-planted parts contain low-lying and of the verdant central area from the alley climbing plants. The pedestrian paths and the avenue and merge the buildings of terracotta run through the garden, into a greener environment. These inducing gentle strolls past the feet of the green spaces are continuous and partly buildings. composed of lawns and prairie-like fields,

The garden and the bases of the planted with varied clusters of blackthorn









## Flower gardens, loggias, terraces and kitchen gardens

400 m<sup>2</sup> of kitchen gardens on roofs

550 m<sup>2</sup> of green roofs

650 m<sup>2</sup> of soil surface

..... 128 kitchen-garden tubs

The way in which the facades and volumes are arranged makes it possible to offer private gardens to all units on the own vegetables through ecological urban ground-floor split-level and balconies, farming offered to them just overhead large terraces and loggias on the upper from where they live. floors, giving onto the living room and A worm-composting system has also shared by all residents.

The balconies and loggias enable genuine freedom on the architectural level and These places are also conducive to provide flexibility in the openings and overhangs. The facades thus become a subtle, sculptural play of fullness and possible uses other than gardening. emptiness, light and shadow.

The accessible roofs of the two buildings devoted to ownership contain urban kitchen-gardens, flower gardens and pergolas for residents. Kitchen-garden

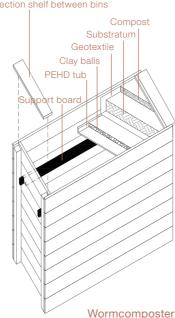
residents a way to take advantage of the pleasures of gardening and raise their

kitchen, up to the roof itself which is been implemented on the roofs for organic farming and the creation of a new ecosystem.

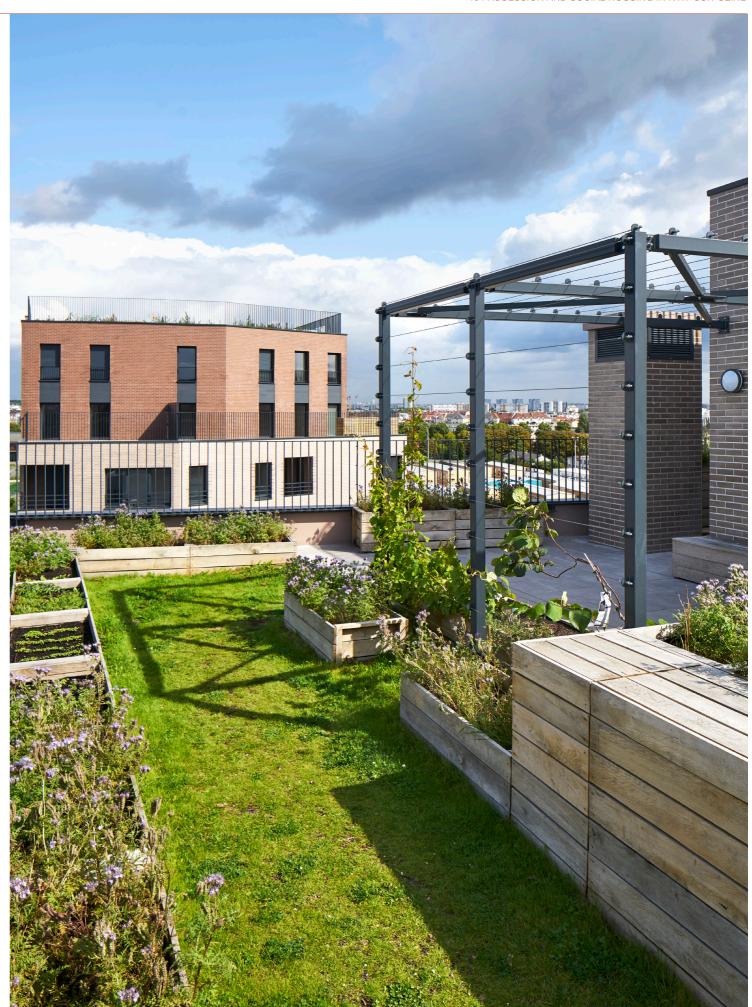
> encounters and conviviality between residents while introducing a range of

A large experimental green roof has been installed on top of building C for social housing. Composed of an unplanted sublayer, the idea of this roof is that of natural fertilisation and landscaping by way of bird nesting boxes, thereby encouraging tubs are placed in these gardens, offering the influx of seeds and organic fertilisers.

Connection shelf between bins





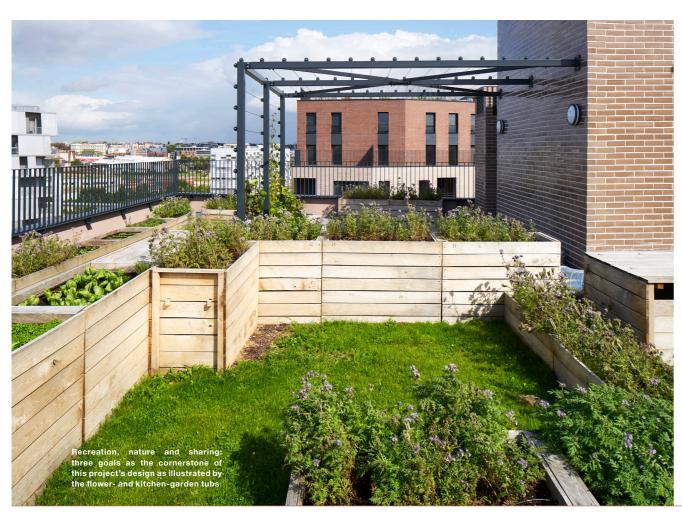


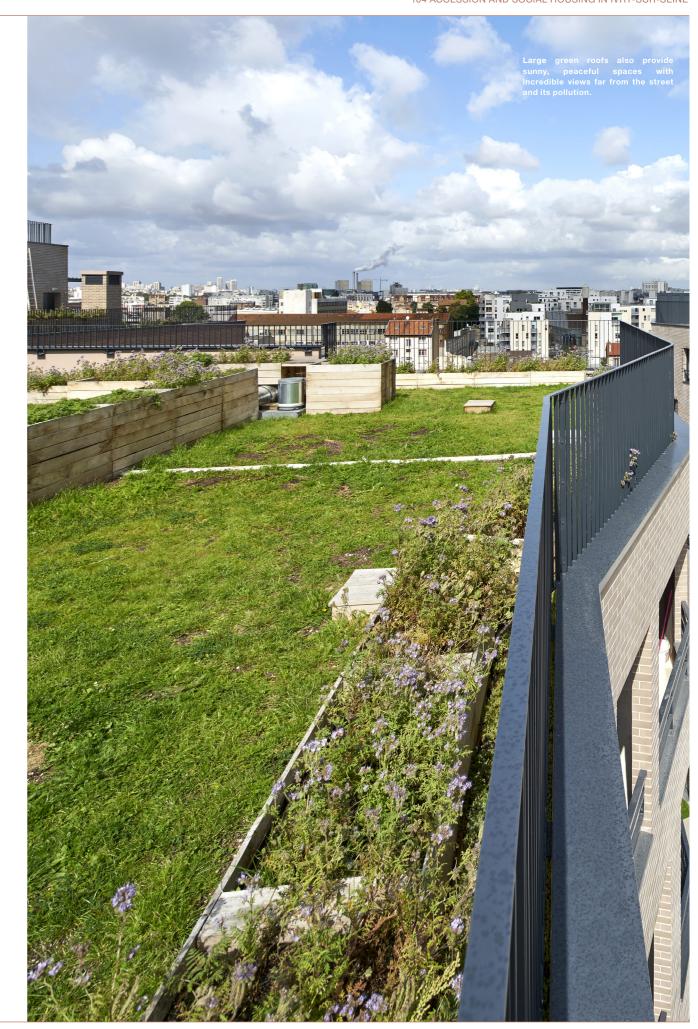
104 ACCESSION AND SOCIAL HOUSING IN IVRY-SUR-SEINE

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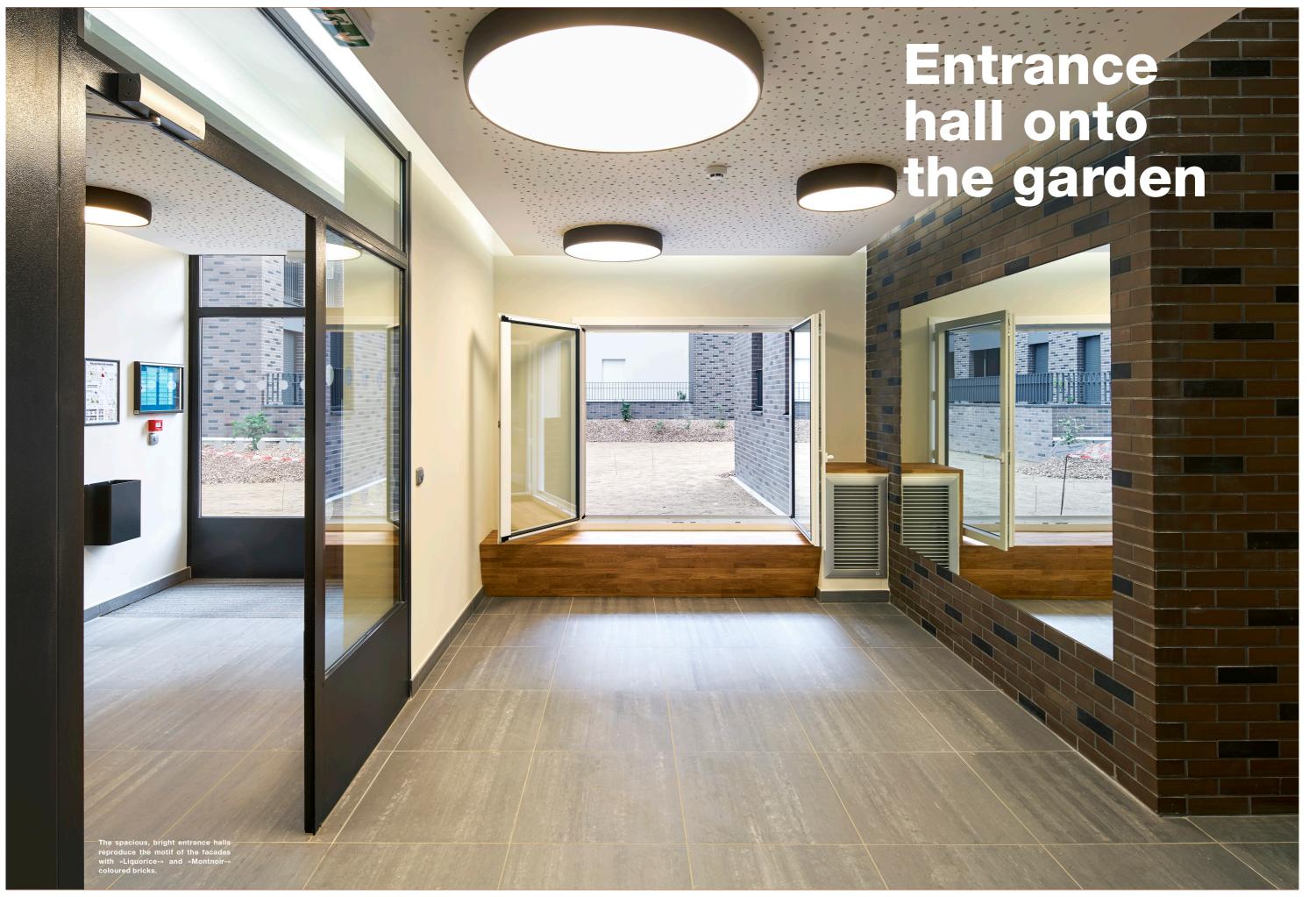
















### **Opening onto the** outdoors and brightness

by spacious, bright entrance halls. A upstairs flats. genuine window onto the garden, they Hallways enjoy natural light with the picture windows, enhanced by the play energy savings. of reflections and depth given by large Both hallways and entrance halls benefit lead to all annex services (storage rooms peace and privacy in the flats. for strollers, bicycles and rubbish bins,

People are greeted in the buildings etc.), the underground car garage and the

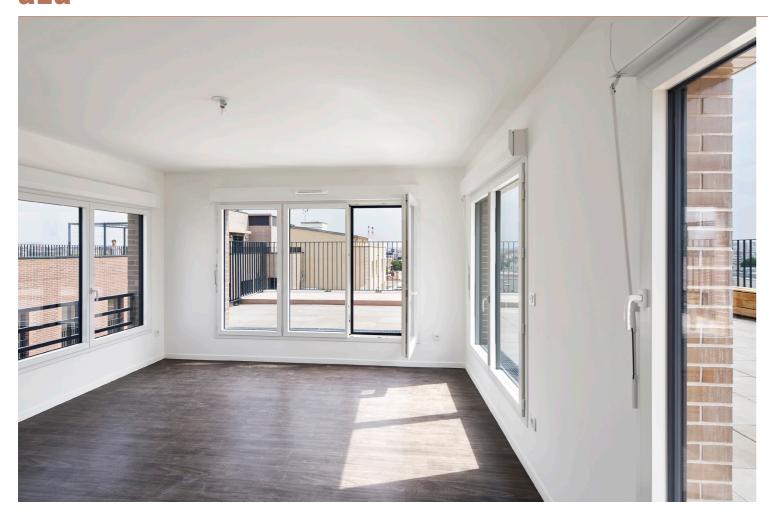
bathe in natural light through large constant goal of not only comfort but also

mirrors on the walls. These entrances from acoustic ceilings so as to ensure



- 2. Logement duplex en RDC

- 5. Jardin privatif



## **Double ou** triple exposure

····· Oriented double living rooms

····· Naturally lit kitchens

920 m<sup>2</sup> of outdoor extensions (balconies, loggias, terraces)

Both rental and ownership units are big, The flats are configured in such a way. The higher up flats are designed on is important for each unit to use several orientations to encourage natural lighting bathrooms. and freshen the air through natural ventilation. Each flat possesses large room and kitchen.

enjoying double, even triple exposure. It as to take advantage of natural light in two levels. With a view to comfort and every kitchen and sometimes even in

More often than not living rooms are occupants with bright, triple exposure placed in corners with double exposure living spaces opening onto very large outdoor spaces leading to both the living to take advantage of a maximum amount private terraces with uninterrupted views of sunshine. Large picture windows let in into the distance. the sunlight and provide views onto the gardens and the Seine to the east.

openness, these split-level flats perch on the roofs like small houses. They provide











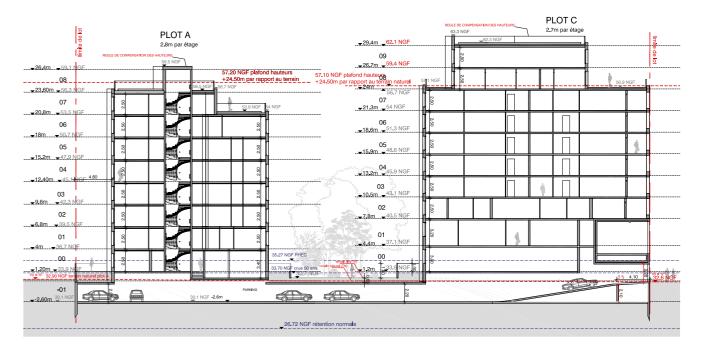


### **Built on a** flood plain

case of a millennial flood.

Using this particular situation, each ground-level split-level opens onto a private garden that is accessible from the living room.

The land on which the 104 units are built 
The buildings stand over an underground can flood when the nearby Seine reaches garage that is floodable. This specific was exceptional levels. In order to counter the a challenge for the building site where risks of flooding, the ground-floor flats the nearness of the water table had to have been designed as split-level so that, be controlled when the ground was first in the event of the highest possible flood excavated. A water-table drawdown with waters (highest known levels, over 30% filtering points was installed to make the with a minimum of 20 sq. m), at least part reservoir for retaining rainwater, the floor of the dwelling remains inhabitable. A of which is extra deep in relation to the device has also been designed so that infrastructure level of the garage and lifts cannot descend below this level in has been designed to resist hydrostatic

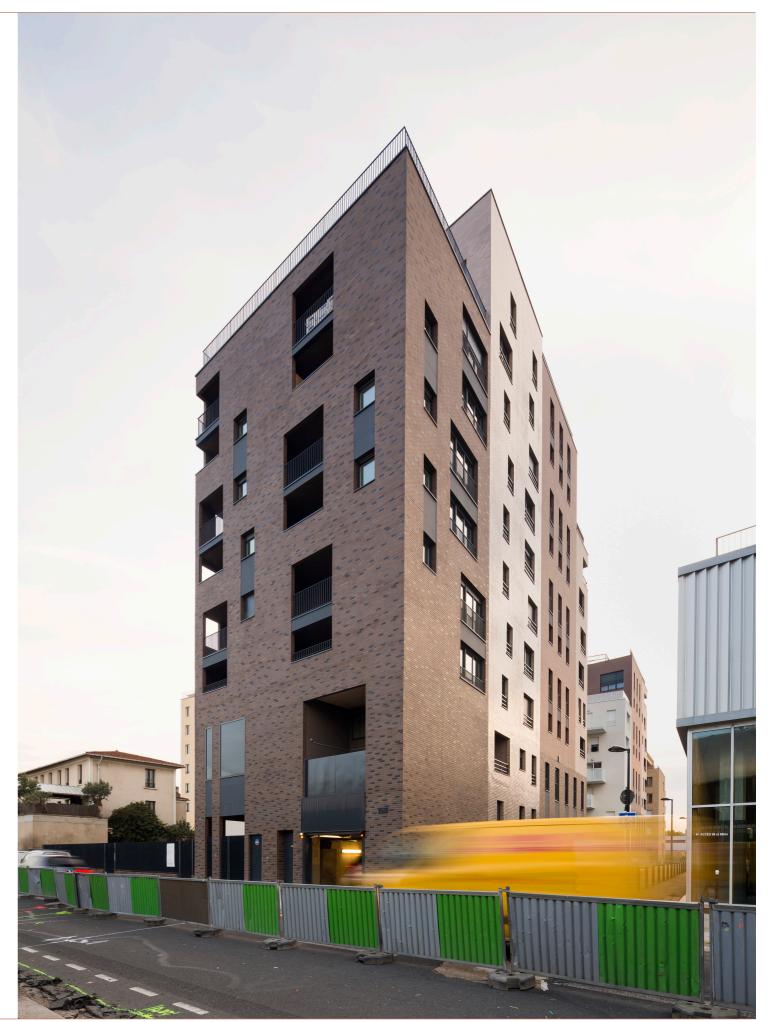




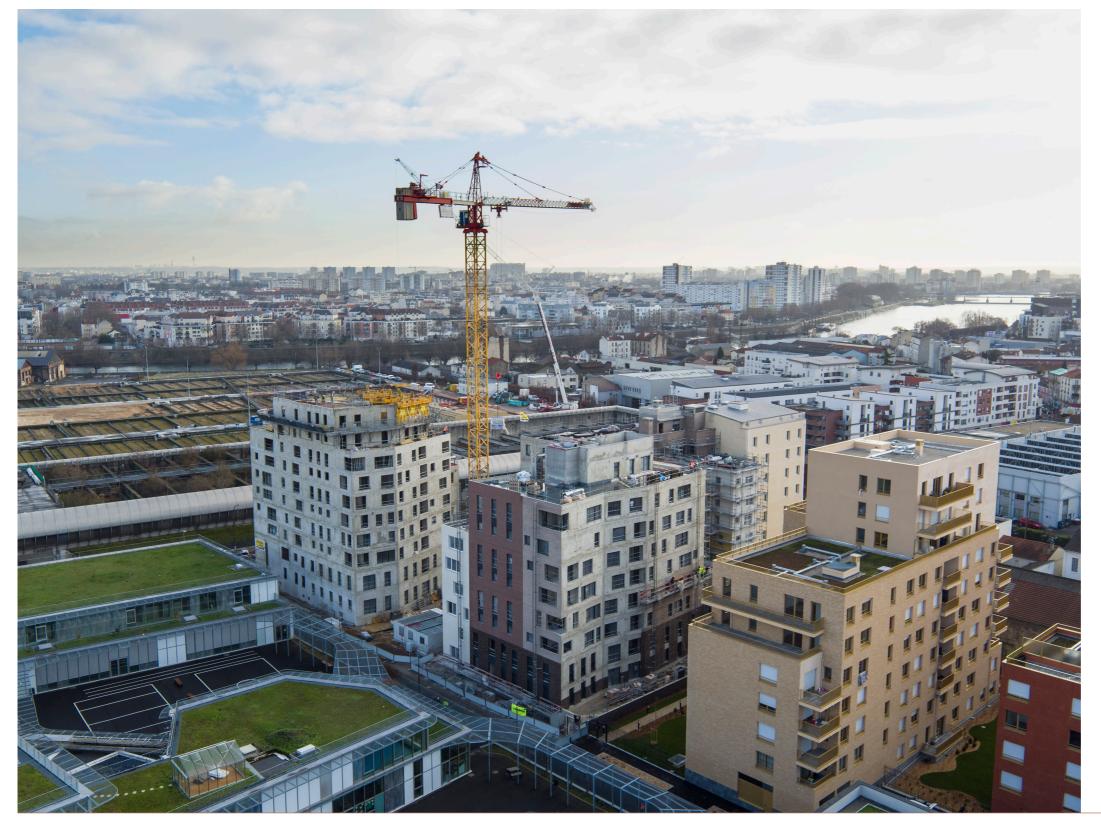
#### **Energy principles**

BUILDING ELEMENTS		Thermal coefficient R in m²K/W
Low floor on unheated premises	Concrete slab, under slab type Ultra FM Clarity of 10 cm any surface	3
Low floor on parking	Concrete slab, under Flocking type slab of 12 cm any surface	3
Wall on unheated premises	Insulation from inside Prégymax 10 + 1,3 cm	3,4
Exterior wall	Concrete 16 cm + interior insulation Prégymax 10 + 1,3 cm	3,4
Terrace	Thane insulation 14 cm + concrete 20 cm	6,1
Windows and French doors	Low emissive glazing	Ujn = 1,2 W.m².K Uw = 1,3 W.m.K
PERFORMANCE OF THE ENVELOPPE	BUILD A BBIO = 47,3 FOR BBIO MAX = 72 BUILD B BBIO = 54,5 FOR BBIO MAX = 72 BUILD C BBIO = 42,6 FOR BBIO MAX = 72	NAMELY RT2012 - 34% NAMELY RT2012 - 24% NAMELY RT2012 - 41%

TECHNICAL EQUIPMENT		Consumption in kWhep/m².year
Heating	Network connection + thermostatic low-temperature radiators	19,5
Hot water	Connection to the network. Low hot water pressure + storage tank	32,5
Ventilation	Simple flow ventilation. Crossing dwellings	3,5
Lighting	80% of the buildings benefit from natural lighting. Low consumption lighting.	4
ENERGY CONSUMPTION	BUILD A CEP = 62,1 KWHEP/M <sup>2</sup> .AN POUR CEP MAX = 69,8 BUILD B CEP = 67,4 KWHEP/M <sup>2</sup> .AN POUR CEP MAX = 69,6 BUILD C CEP = 58,5 KWHEP/M <sup>2</sup> .AN POUR CEP MAX = 69,2	NAMELY RT2012 - 11,5% NAMELY RT2012 - 3,5% NAMELY RT2012 - 16%



## The presence of water was a challenge for the worksite









### Gaétan Engasser Interview

#### by Jean-Philippe Hugron

#### How did the project start?

Paul Chemetov brought me into a project on which we had worked for over 5 years. It was an urban study for transforming and planning an area in the near suburbs to the southeast of Paris that would join the towns of Alfortville, Choisy-le-Roi, lvry-sur-Seine, Orly and Vitry-sur-Seine. What we learned in that time enabled Agence Engasser + Associés to build 110 housing units in Choisy, fol-lowed by 104 units in lvrysur-Seine.

#### Could you give us an idea of the operational context?

The lvry project is located in the lvry Confluence development zone. It was adjacent to a school designed by the Chartier Dalix Agency on one side and across from a water treatment plant on the other. Those two facilities left the views open. So we had to make sure we handled these views that give onto a floors. We were able to get it up to 9 broad metropolitan landscape with care.

#### What shape could you give to the project?

The shape of the plot itself dictated its dimensions. What's more, it forced us to accept a certain density that has become the norm for any operation carried out in Paris' near suburbs. Rather than a single building, we wanted to work on three distinct buildings, each broken down into different units. We were able to favour views through this fragmentation into micro-architecture and, despite the density, provide breathing space.

#### Why didn't you adhere to the singlebuilding idea as initially stated in the spec sheet?

In my view the monolithic concept is a derogatory model. Architectural diversity responds more to the context of a suburb composed of different layers. It is also the expression of a suburb's architec-tural fabric. And by subdividing the plot we were able to create walkthrough flats with double, even triple exposures. Constant collaborative work with town planners made it possible to redefine and redirect the initial spec

#### Did the town-planning scheme authorise such variety?

The town-planning rules set by Bruno Fortier enabled us to imagine a variation in the project's vol-umes. In fact they gave us the chance for some give-andtake. The initial height was set for 7 on the sole condition we also create a 5-floor volume. This freedom enabled us to create scaled volumes.

#### How did you work on the shape?

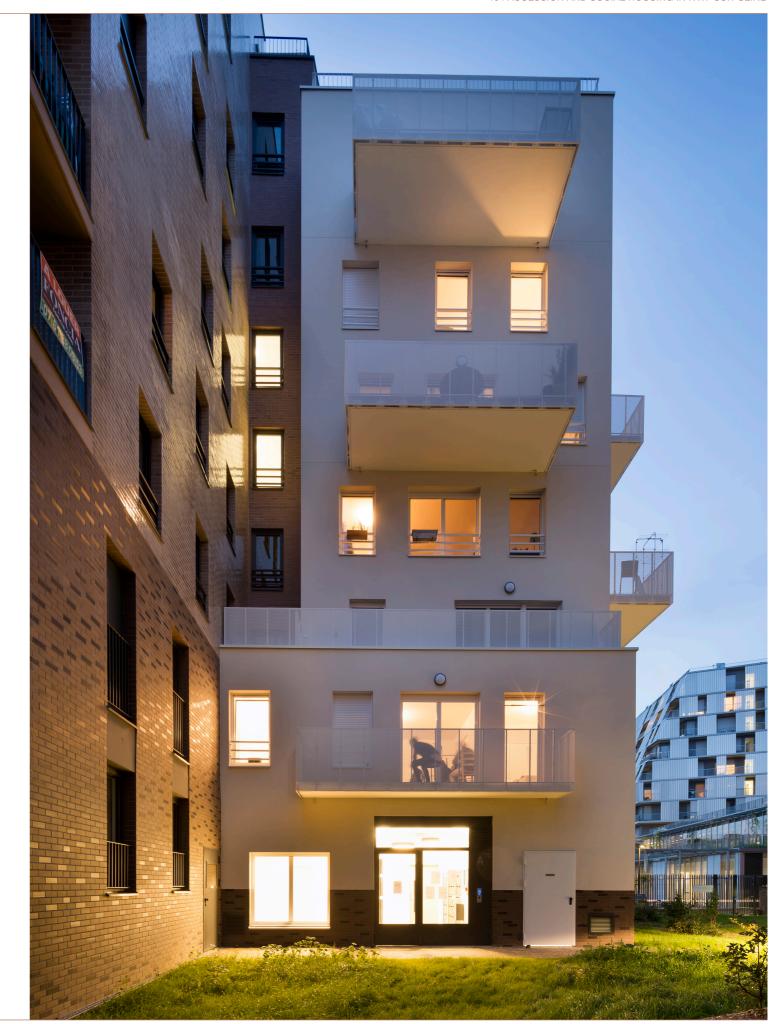
We like to work with hollows. We sculpted the mass, for example, to create loggias more than bal-conies. We preferred loggias as an answer to Paris' dour climate, resolve privacy issues and even manage rainwater. We also wanted to play with materials so as to give rhythm to the facades and highlight the fragmented volumes.

#### What did you do with the operation's green spaces?

The planning scheme called for green spaces that we saw as an opportunity to created spaces for socialising. We were resolved to balance them and permutate them in height. More than just green roofs, we designed these collectives terraces as genuine gardens enhanced by pergolas and many kitchen-garden tubs, thus encouraging urban farming. We worked out this experiment with the Topager company with whom we have collaborated for several years on similar

#### How are you planning to arrange these terraces so that in the end residents can embrace them?

We are mentoring the buildings' residents for the first year. In order to do so, Topager has formed an association with the co-owners and co-tenants. After that Topager will do follow-up by offering training every two months so that these places can take on a life of their own.







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Located on a plot of land in lvry-sur-Seine and close to the river, this 104-unit project had to adapt to the physical constraints of its environment while enhancing the brief with added value. Composed of three apartment buildings, two of which are for private ownership and the third for social housing, the buildings stand in a verdant environment with a landscaped inner garden, visual openings onto the Seine and roof terraces enhanced by flower- and kitchengardens open to everyone.

Arranged in a staggered design, the three buildings are broken down into varying volumes, materials and tones so as to create variations of scale and embellish them with

A dense, urban project that the agency has transformed with panache into a habitat favourable to encounters and conviviality in a bucolic setting.