

agence Engasser + associés

The House Sports in Bezons

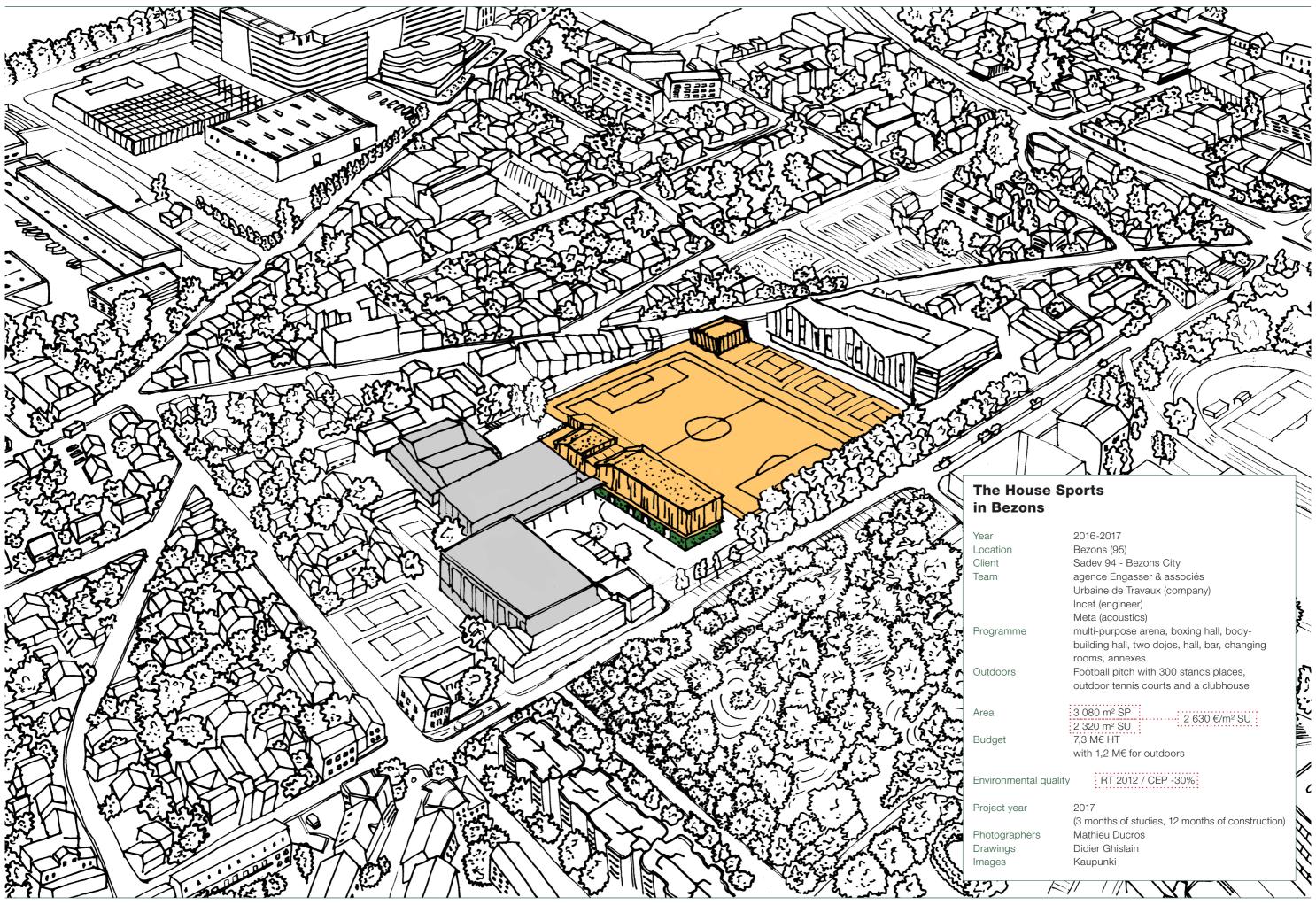
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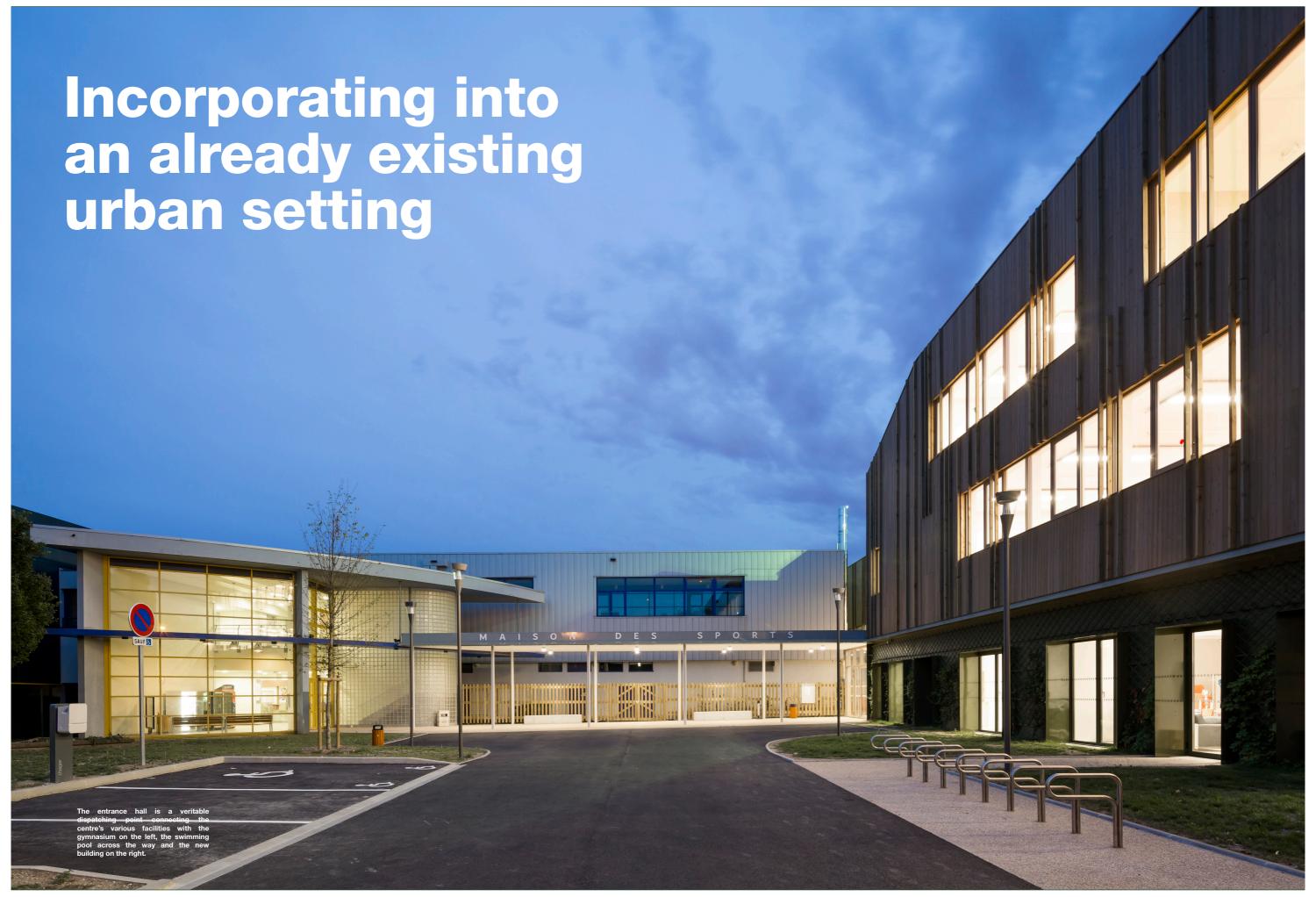
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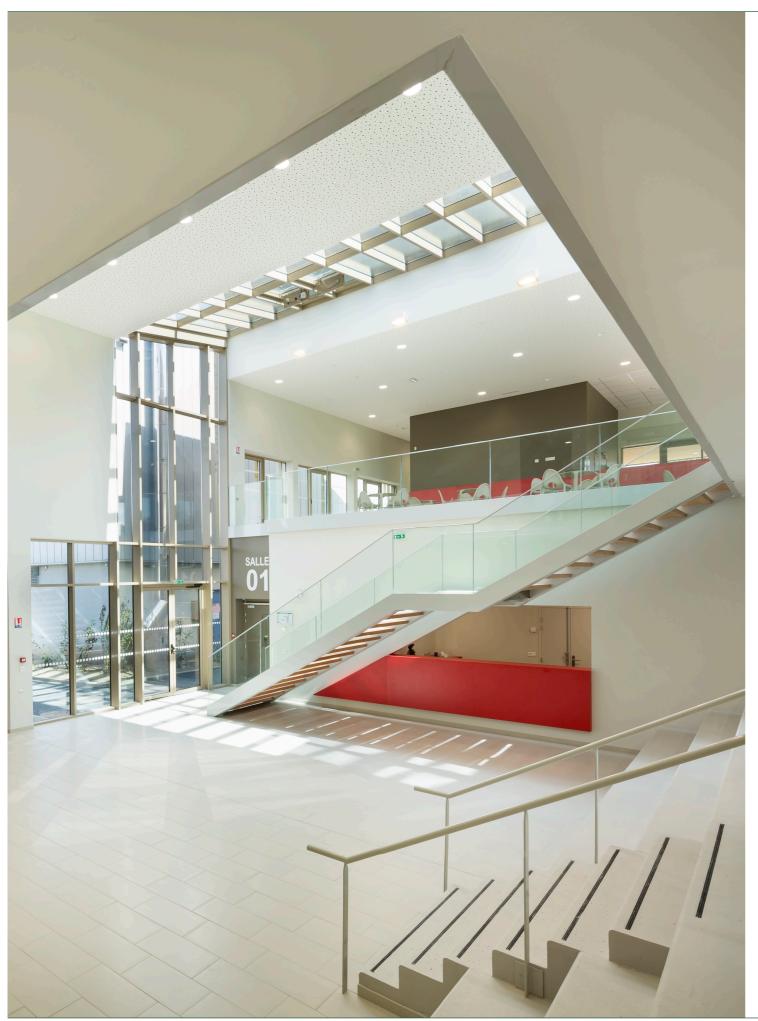
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A link between all of the centre's facilities

How to fit into a site at the heart of an The new building fits in as a unique wing already very crowded plot of land?

As one consistent entity, the Sports Centre pulls together a large number of elements from different briefs, i.e. an alreadyexisting gymnasium, swimming pool and indoor tennis courts with the creation of a multi-purpose arena, a boxing hall, a body-building hall, two dojos, a football pitch with stands, outdoor tennis courts and a clubhouse.

overall restructuring project on a city- to the west of the existing L-shaped wide scale and design an extension on an buildings, unifying the whole in a U configuration.

> This creates an inner courtyard, a genuine place to breathe between buildings and a by a broad horizontal line in continuity generator of light that unifies all access

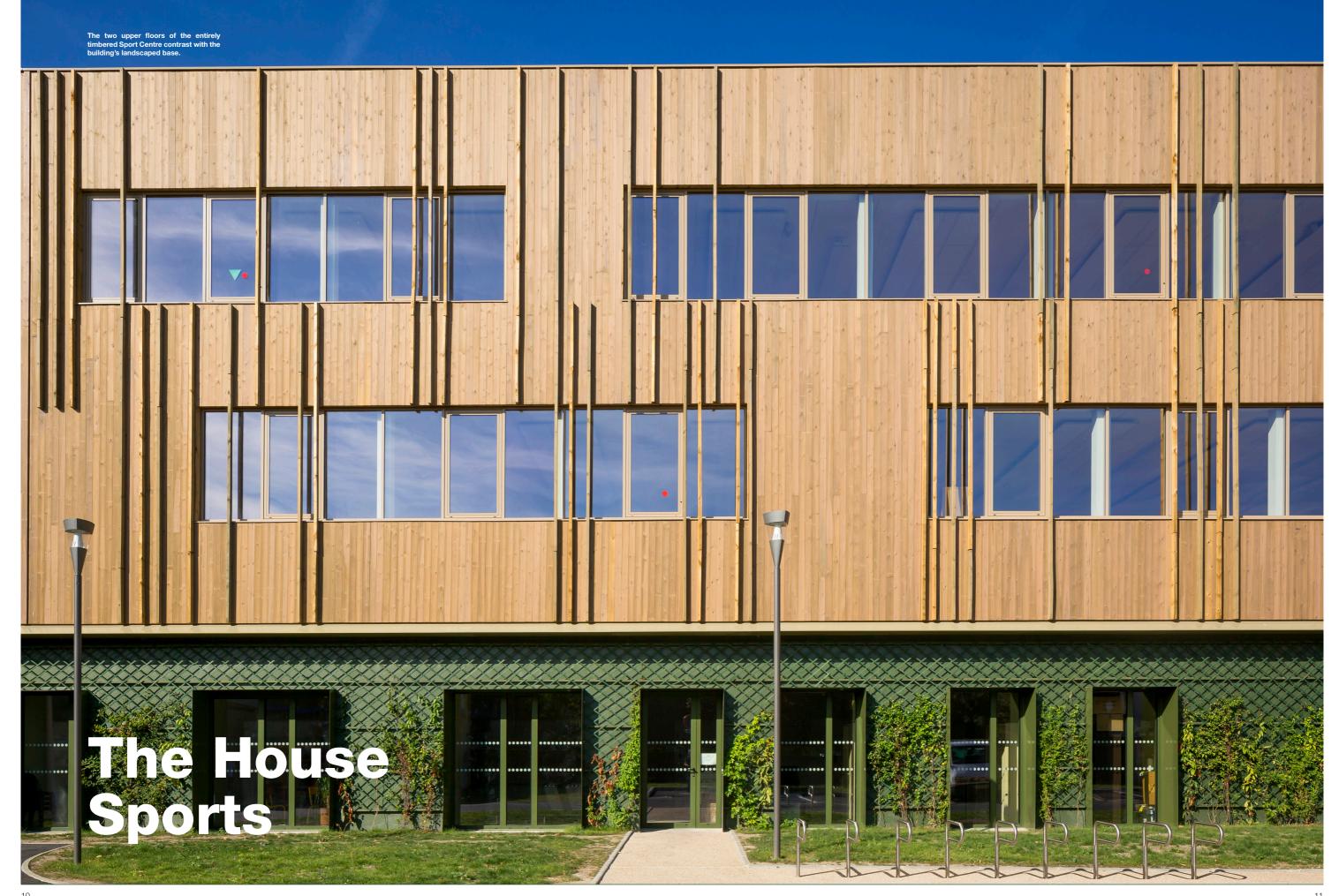
The project is comprised of the three following strong elements:

- An entrance hall serving as the connecting point between the sport facilities; this entrance hall is highlighted with the new building so as the have all the buildings revolve around each other and unify the two halls leading to the sport facilities
- A green base like a vegetal hedge that breaks up and lightens the building as a continuation of Bettencourt Park
- A two-floor hanging timber building that contains the sport halls and stands on the green base like lantern.



- 1. Entrance
- 2. Sports halls
- 3. Gymnasium
- 4. Swimming-pool
- 5. Indoor and outdoor tennis
- 6. Clubhouse
- 7. Football pitch
- 8. Stands
- 9. Bar
- 10. Solarium

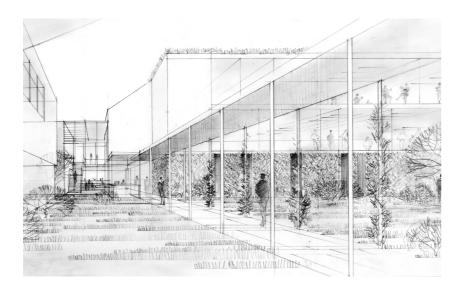




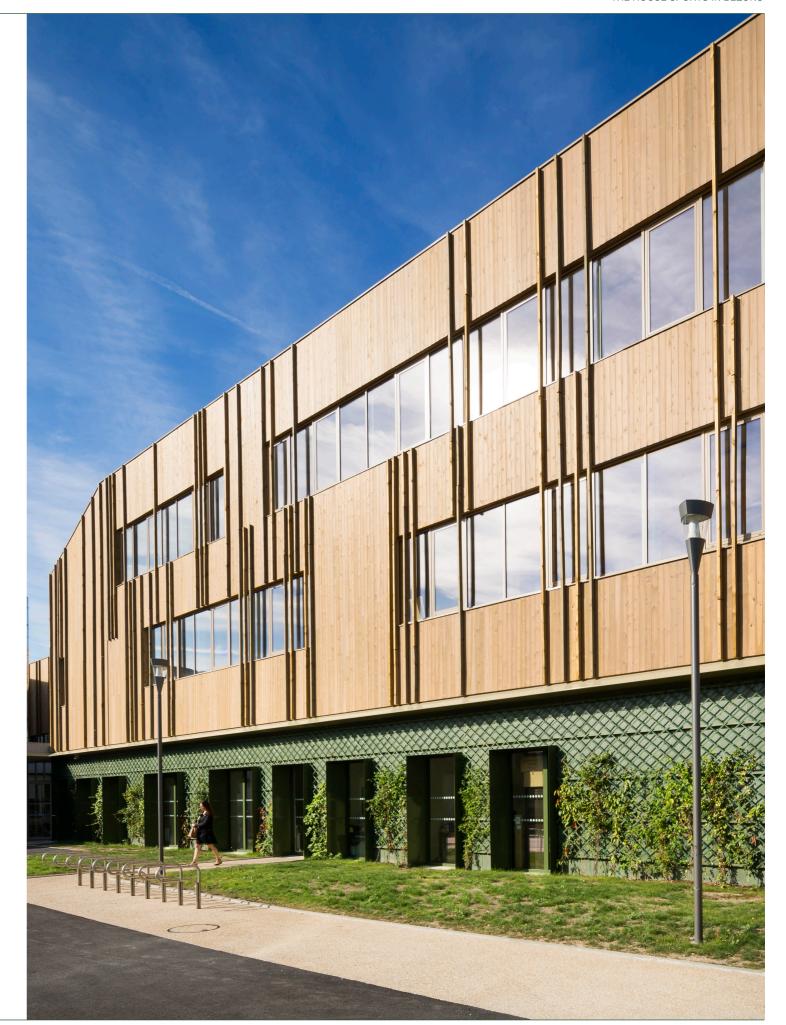
A green base, extension of the park



The new building is located in the extension to the park that occupies the north portion of the plot. Like an extension of this park, the ground floor is composed of an anti-graffiti glazed concrete facade doubled by a hedge of climbing plants, 50 cm thick at a height that corresponds to that of the entrance hall. This green base divides the building in two and lightens it. Composed of plants requiring little maintenance, it isn't a plant wall but a hedge growing from the ground. The non-invasive creepers grow up the trellises to the first floor without causing harm to the building in front of which they stand.









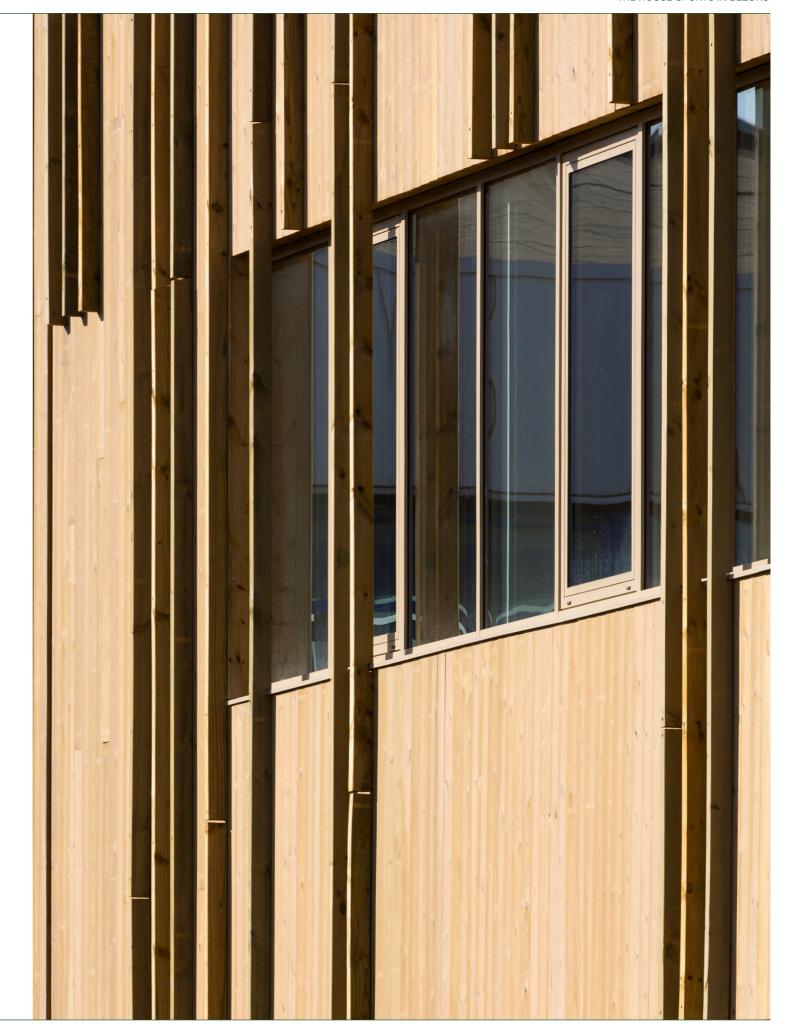
A hanging timber centre



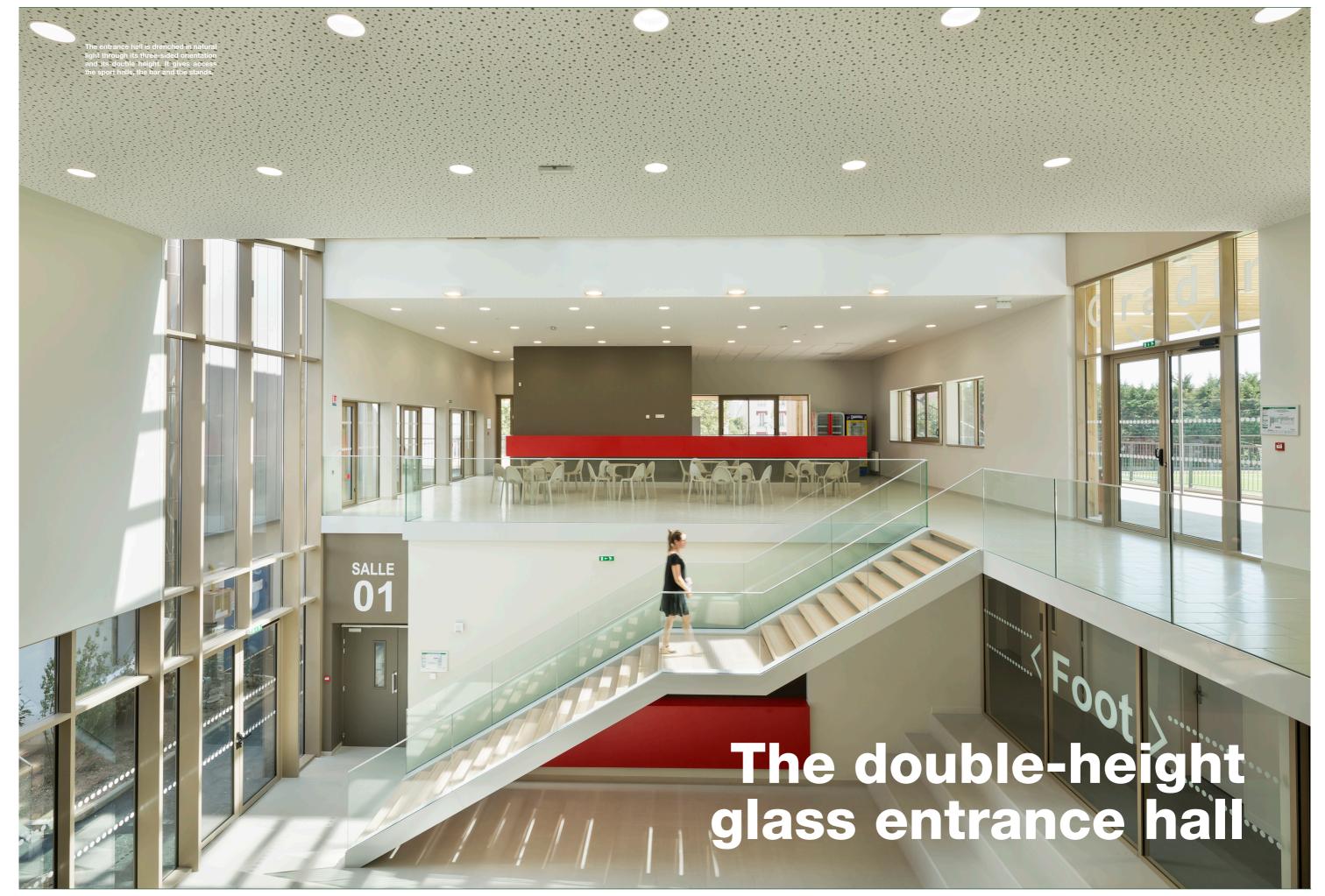
The wooden centre stands on the green base, two constituent floors of the building (reception, offices and sports rooms) totally clad in timber. The facades are livened up by large timber spines that give rhythm to the cladding's shadows and extra thickness. They are generously glassed on the two best orientations favourable for practicing sport, i.e. the north and northeast, allowing athletes to enjoy a bright, open atmosphere that gives onto the park.



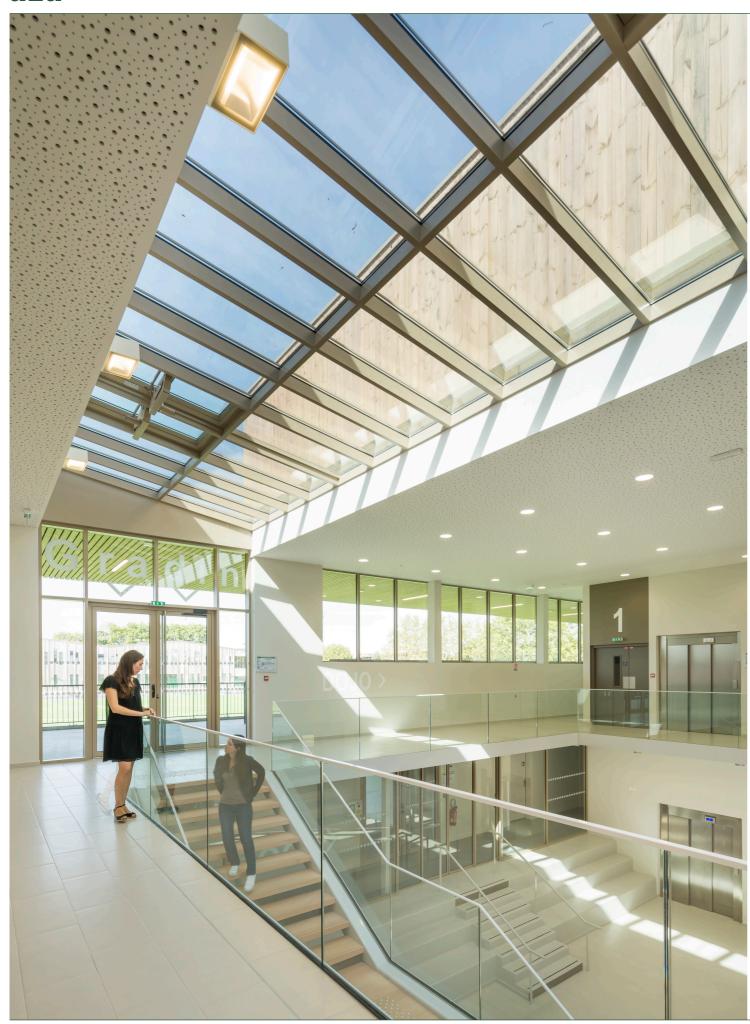












AN OPEN, BRIGHT **RECEPTION AREA**



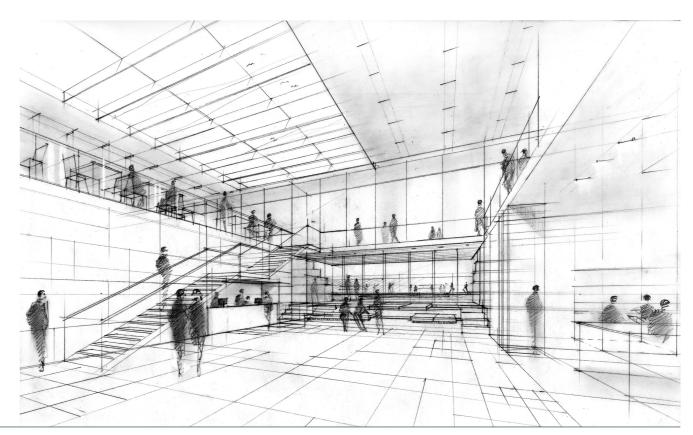
and roof, the central entrance hall lets in natural light to the core of the Sport uninterrupted view of the football pitch, sport rooms located on the upper floors. and its double height (nearly 8m) creates to monitor the access points and guide directional glass partitions:

With its generously glassed-in facade On the ground floor the hall gives access to the body-building room, toilets, offices and premises for sport associations. With Centre. Being walk-through, it offers an the lift and central staircase it links all the the swimming pool's sun deck.

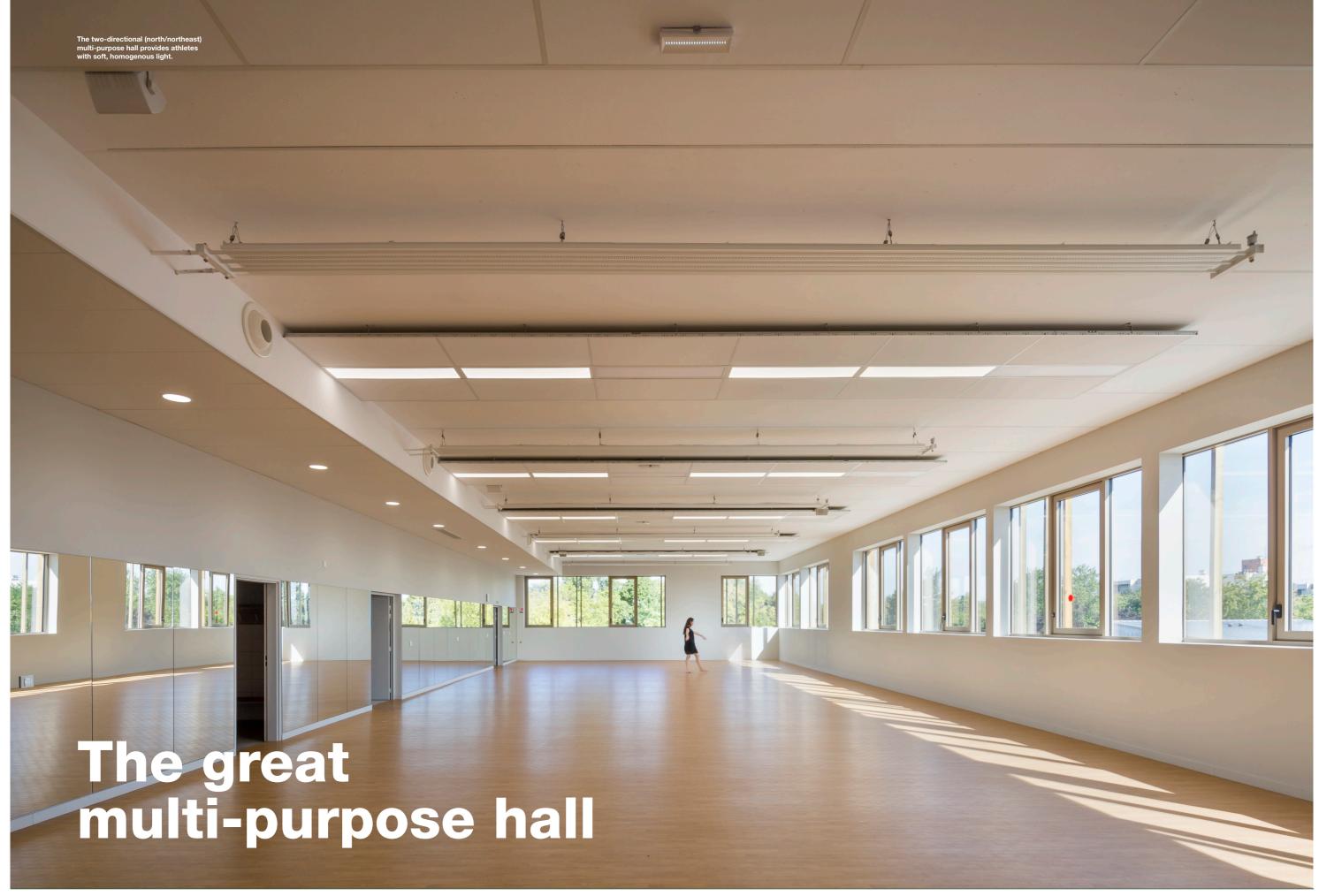
an immediate rapport with the bar on the The reception, cafeteria and bar areas a wide, same-level platform with the bar, first floor. The caretaker's lodge, located at the core of this atrium are organised making it possible to watch matches with very near the entrance, and a wide directly with 3 briefs for the sale of drinks a panoramic view from inside. reception desk in the hall make it possible and snacks via a counter and three-

- towards the hall on the mezzanine
- towards the stands of the football pitch • towards the terrace, an extension of

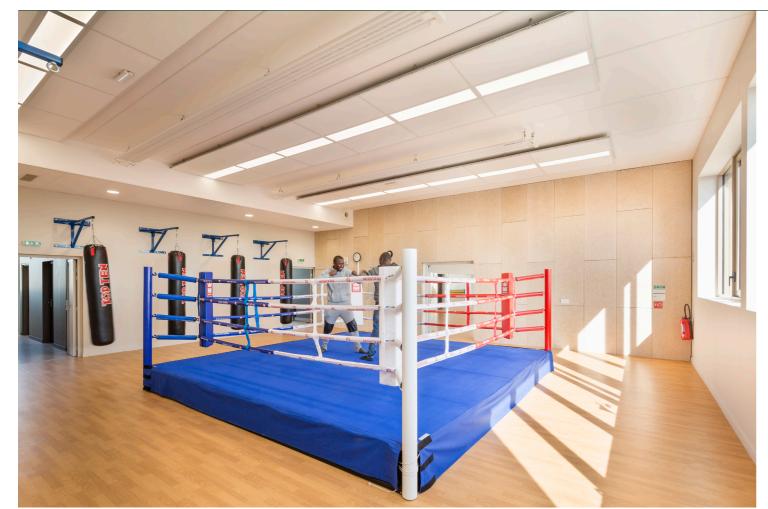
The stands are arranged so as to allow







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A unique orientation installing warmth in the sports hall



Located on the first and second floors, The halls are built with pre-poured high acoustic panels.

the sport halls all enjoy north and north- concrete slabs providing the sport east exposure for a soft, homogenous areas with handsome volumes without light. The dojos are lined with cushioned intervening pillars. The ceilings are offwalls. The other halls are lined with head- set, enabling the insertion of light fixtures and acoustic panels between the slabs. Each hall has two exits and areas for changing rooms and storage space.

- 1. Boxing
- 2. Gym hall
- 3. Solarium
- 4. Hall, reception area
- 5. Small Dojo
- 6. Main Dojo
- 7. Bodybuilding
- 8. USOB offices



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Generous, pleasant space in the annexes



rooms with dirty shoes and emerge in fixtures. the sport halls with clean shoes. The changing rooms are often grouped by two to limit the need for service ducts and to pool the wet areas (showers, toilets,

The changing rooms located on all floors
The hallway leading to the sport halls is of the Sports Centre are walk-through also located on the facade side, giving and adhere to the street-shoe/sport-shoe rise to well-lit, friendly foot traffic and a the outside. It has a glass wall onto a concept, i.e. people enter the changing panoramic view of the outdoor sport small patio created along the swimming

The body-building gym has direct access to the entrance hall and is wide open to pool facade by a hedge that reproduces the base-principle of the Sports Centre. It forms a kind of landscape in front of the body-building room.







THE HOUSE SPORTS IN BEZONS

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A plethora of outdoor activities



a previous one, making it possible to enlarging it. It also made it possible to areas and preferential access. place the stands up against the building.

The roof over the stands is composed of a light frame supporting a metal cover with timber cladding on the under side. Although the stands' 300 seat capacity abuts against the Sport Centre's building, it is entirely independent in its use.

are free standing:

- a central access point from the pitch
- two access points on either end of the stands for independent use
- and access directly into the entrance hall that can be opened or closed depending on needs

The football pitch has been laid over The running track has been located between the football pitch and the tennis conserve part of its original shape whilst courts, enabling the separation of the two

> placed at the end of the plot with the best possible sun-exposure for play. The clubhouse is located near these new courts so as to created a tennis hub.

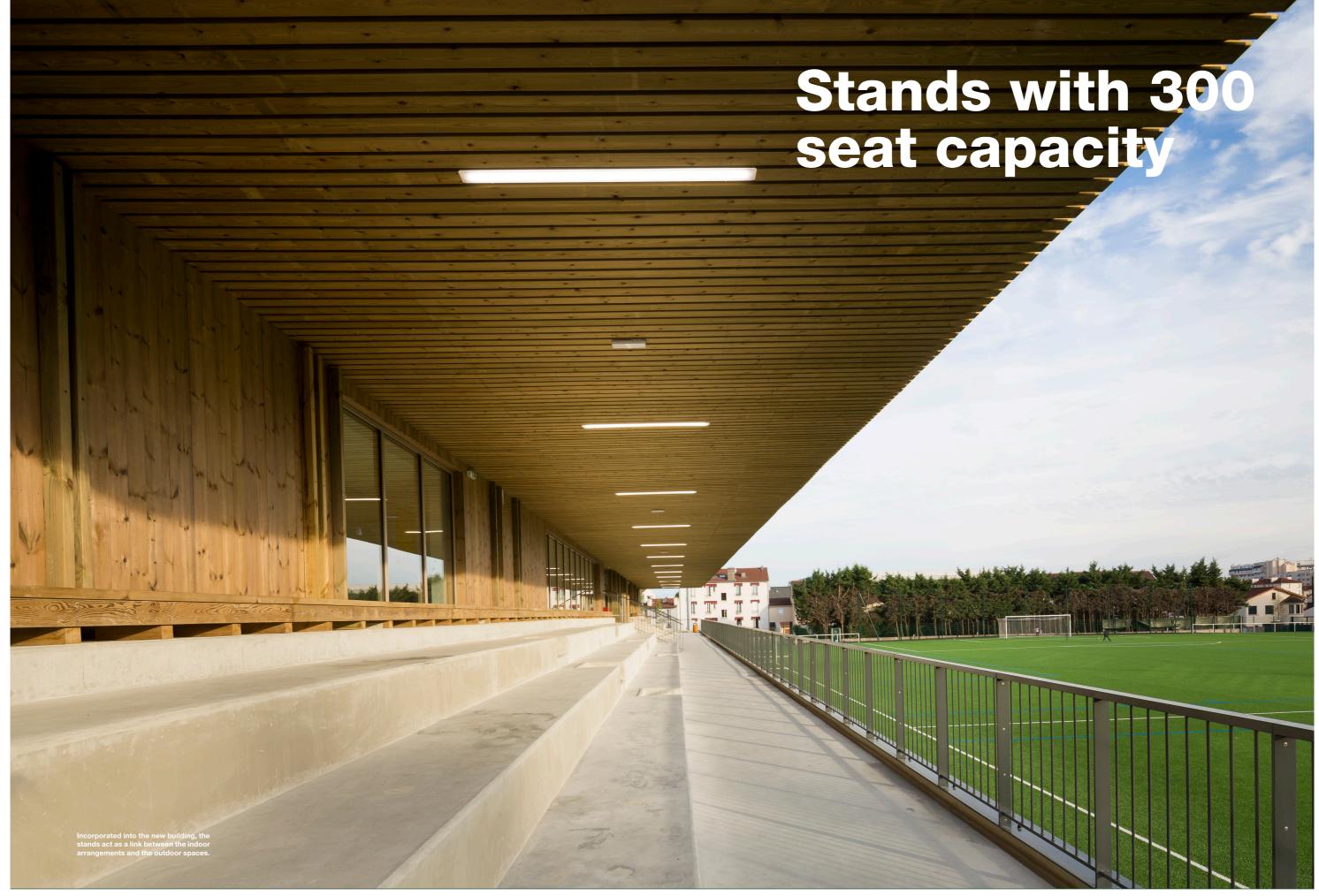
A path enabling access for people with special needs makes it possible to reach There are 4 access points, three of which the already existing indoor tennis courts via a landscaped passageway.

The sun deck has direct access from the swimming pool and on a level with the door to the pool. It faces directly south to take full advantage of the sun. A space for snacks is located closely nearby on Three new tennis courts have been the terrace outside the bar-cafeteria.













Complementarity of materials and technical choices

The Sports Centre marries the following:

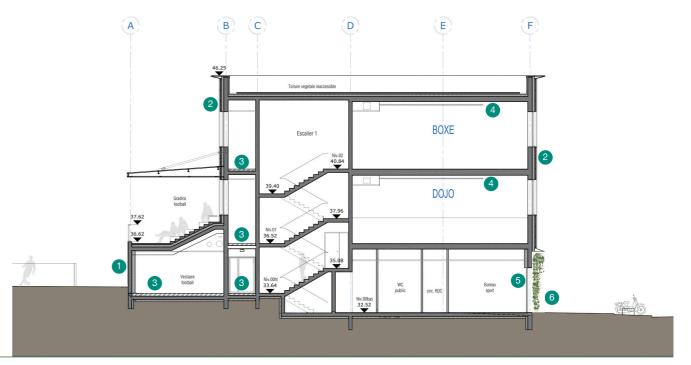
- textured and anti-graffiti-treated concrete with indoor insulation on the ground floor
- trellised concrete with occasional plantlife
- stained and saturated Scots pine cladding with exterior insulation on the upper floors

Construction systems:

- Foundations of piles and structural slabs
- Base and superstructure in concrete
- A system of floor slab shuttering (prestressed slabs)
- An insulated envelope, woodwork with thermal bridge breaks
- Northeastern exposure and natural lighting favoured, with a goal of the level

P equivalent of the HQE standard

- Cogeneration gas boiler
- Radiant panel heaters in the sport halls
- Floor heating in the entrance hall, passageways and changing rooms
- Overall double-flow ventilation
- Quality artificial light: a uniformity coefficient of 0.7
- green roof
 - 1. Textured concrete
 - 2. Timber-clad facade
 - 3. Floor heating
 - 4. Acoustic ceiling and heating panels
 - 5. Powder-coated metal pre-frames
 - 6. Green hedge and textured concrete









Energy principles A low consumption building

CHARACTERISTICS OF TH	E ENVELOPE	Losses U en W/m2.K				
Thermal insulation	Concrete walls + 16 cm rockwool Green roof on concrete + 13 cm polyurethane Low concrete floor + 13,5 cm polyurethane underneath	0,22 0,17 0,28				
Glazed surfaces	Aluminum joinery + double glazing low emissive	1,5				
Thermal bridge treatment	External insulation continues to recover acroteria					
Airtightness	Objective permeability to 1,6 m³/h.m² facade	measured at 0,54 m³/h.m², much better than the goal				
PERFORMANCE OF THE EI	NVELOPPE BBIO = 83,80 FOR BBIO MAX = 110,00	NAMELY RT 2012 -24%				

TECHNICAL PROVISIONS		Consumption in kWhep/m².year
Heating	Cogeneration gas boiler Radiant panels, underfloor heating	24,10
Ventilation & auxiliaries	Double flow with heat recovery	28,00
Hot water	Dito heating with balloon	68,00
Lighting	Favored natural lighting in rooms and circulations	42,80
Electric production by cogen	erator	- 83,5
TOTAL CONSUMPTION		79,40 kWhep/m².year
ENERGIE COMSUMPTION	CEP = 79.40 KWHEP/M².YEAR FOR CEP MAX = 132	NAMELY RT 2012 -40%

PLANNING 3 MONTHS OF STUDY AND 12 MONTHS OF CONSTRUCTION

	2015		2016									2017				2017			
	dec	jan	feb	march	apr	mai	june	july	aug	sept	oct	nov	dec	jan	feb	march	apr	mai	june
competition																			
studies																			
construction																			

Outdoor Facilities and rainwater management

COFFFICI	ENT OF RUNOFF	Area	Area			
	LENT OF NOROTI	concerned	impermeable			
1,00	Roof slope or terrace	4 570	4 570			
0,70	2. Extensive green roof	900	630			
0,20	3. Grassed lawns	11 300	2 260			
1,00	4. Roadway	550	550			
0,70	5.Green parking	500	350			
0,60	6. Foopath	3 340	2 004			
Rainwate	r is collected in an underground basin of 264 m³					
TOTAL SU	10 364					
WATERP	ATERPROOFING COEFFICIENT					
TOTAL LEAKAGE RATE						



- 1. Metal roof
- 2. Toiture végétalisée
- 3. Vegetalized roof4. Green spaces
- 5. Car park
- 6. Green hedge
- 7. 264 m3 underground retention basins

 38

Gaétan Engasser Interview by Jean-Philippe Hugron

What is particular about this project?

The agency is used to doing gymnasiums. The brief requested by the city of Bezons proposed trans-forming an existing site and to build new offices in order to create a Maison des Sports (sports cen-tre). Near the swimming pool and gym they wanted to build stands facing the football pitch, a mul-ti-purpose hall, two dojos, a boxing gym, changing rooms, offices and three tennis courts along with a club house and sun desk

What was the challenge for you in the project?

The project called on us to think of combining all the brief's components. So we decided to have our proposal revolve around the open spaces: a forecourt, a foyer and a cafeteria.

Was it possible to share entrances to create a single foyer?

We had to work on an already built site whilst the swimming pool had to remain open all the while. So we couldn't create a common foyer for the whole brief (extant + new). What's more, that solu-tion involved making overly big hallways that would have hindered the organisation of the site and the plan's clarity.

Why the facades in wood?

The wood we used for the facade was in response an direct request made by the city. And we didn't mind. We were careful to opt for an autoclaved material and a darker pigment to prevent overly rapid ageing.

Can you tell us more about the facade's aesthetics?

To give the building a certain sense, we decided to work on this traditional cladding by giving it rhythm and depth. So we added wood strips to create an effect of thickness. At the same time we worked with three different shades of material.

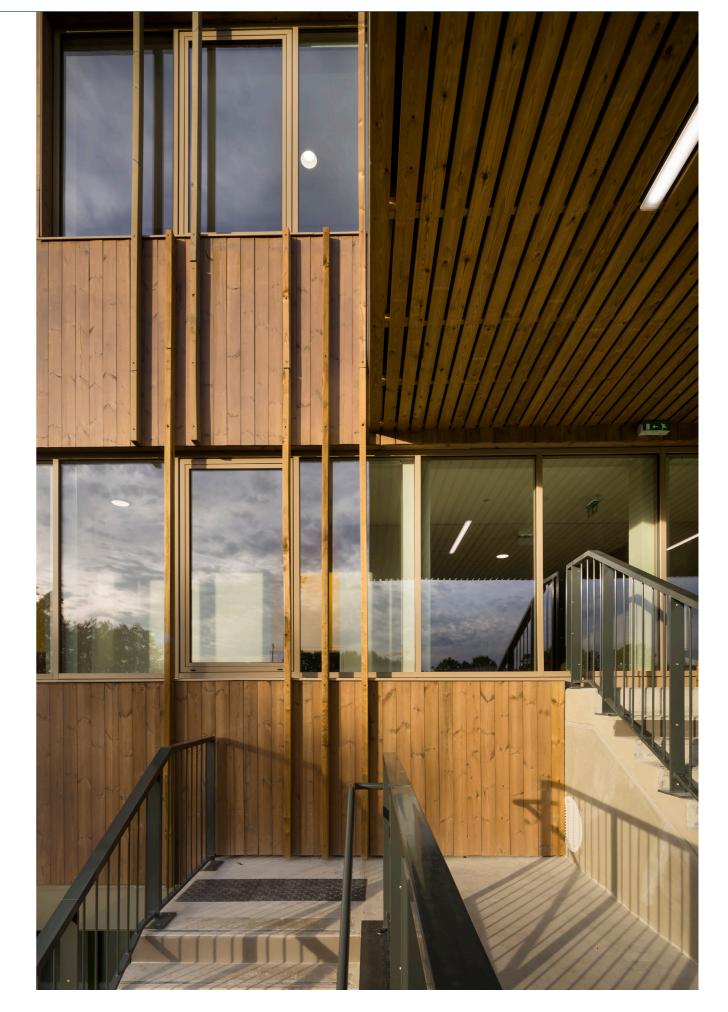
The project is notable for having gone up quickly. How come?

The deadlines given us were particularly short. All in all we had 3 months for the studies and 12 months for building. The Bezons authorities were especially helpful in granting the building permits, and our relations with the whole set of players in the project were excellent.

Do you think speed is a hindrance?

A project that goes fast is a healthy project. Swiftness is a pledge of effectiveness. So you have to optimise the time given, which means working hand in hand.

In my opinion the dynamics of a project can suffer from having too much time. What I do regret, on the other hand, is the ever shorter time allowed for competitions. We now have a mere month and a half to design projects. We have to understand a site, the challenges in a brief and pro-duce all the documents required. Which means we are given only a few days to reflect on it, a det-rimental situation.





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The Sports Centre combines a wide variety of elements from different briefs, i.e. already existent gyms, swimming pool and indoor tennis courts with new all-purpose halls, a boxing gym, a body-building gym, two dojos, a football pitch with stands, outdoor tennis courts and a clubhouse. The new building is located to the west of existing buildings, uniting the whole with an entrance hall that acts as a bridge to all the facilities.

A ground-floor green base supports a «wooden house» that contains the sport halls. Bathed in natural light the entire building offers warm and functional spaces.