



HYPÉRION HOUSING TOWER

Posted on November 10, 2017 by content



Categories: [Energy and sustainability](#), [Essay](#), [High Density](#), [Jean-Paul Viguier](#), [Politics and economics](#), [Senseable Technologies](#), [Technology and fabrication](#), [Urban Paradigms](#)

Tags: [Bordeaux](#), [Carbon-emissions](#), [Carbon-neutral](#), [CO2 emissions](#), [Cross Laminated Timber](#), [Design-based research](#), [Ecological agencies](#), [Ecological researches](#), [Energetic Approach](#), [Environmental&technological](#), [Essay](#), [Experimental Fabrications](#), [Experimental housing](#), [France](#), [Future development](#), [Housing](#), [Innovation](#), [Material experimentation](#), [Materials](#), [Natural materials](#), [New materials](#), [Political & Economic Approach](#), [Renewable resources](#), [Research](#), [Responsive technologies](#), [Sustainability](#), [Sustainable construction](#), [Sustainable Development](#), [Technological Approach](#), [Timber](#), [Urban Paradigms](#), [Wood](#), [Wood construction](#)

urbanNext Lexicon

Hypérion Housing Tower

<https://urbannext.net/hyperion-housing-tower/>

"Hypérion, the tallest living tree"

Jean-Paul Viguier et Associés, in partnership with Eiffage and Woodeum, has won a competition to build a 50-meter high residential tower in Bordeaux on plot 8.4 in the Saint-Jean Belcier district. The project, named "Hyperion" in reference to the tallest living tree on Earth, will be built using a wooden CLT (cross-laminated timber) structure.



ISSN : 2575-5374

View from Rue Carle Vernet

In environmental terms, the project is representative of a new generation of low-carbon buildings. The lightness and stiffness of solid wood CLT, combined with the strength of glulam and LVL technology, takes timber construction to new heights.

Hyperion will serve as a reference for BBKA (low carbon building label) building.

The construction will begin in 2017 with a delivery expected at the end of 2019.

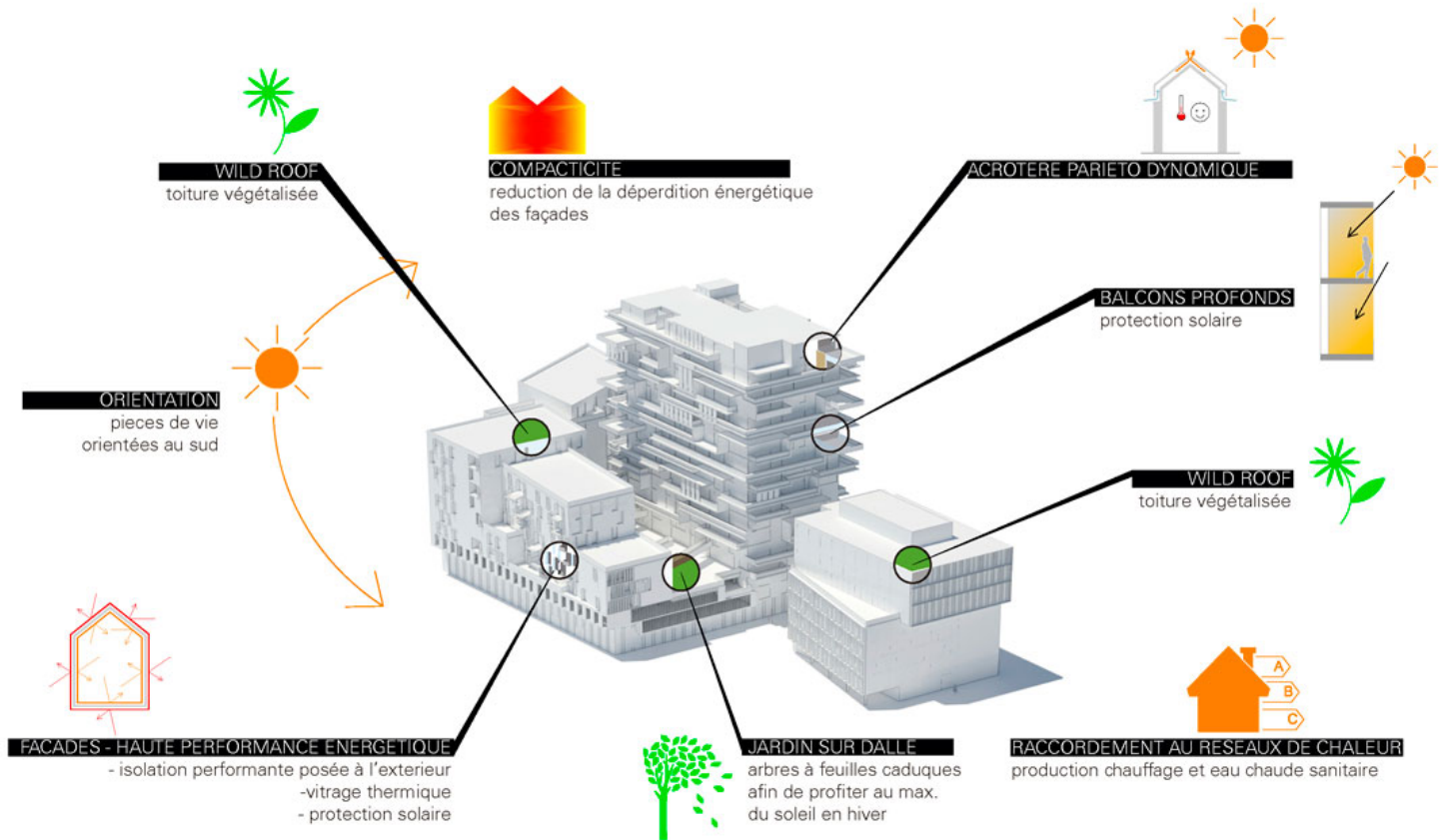
urbanNext Lexicon

Hypérion Housing Tower
<https://urbannext.net/hyperion-housing-tower/>

ISSN : 2575-5374

urbanNext Lexicon

Hypérion Housing Tower
<https://urbannext.net/hyperion-housing-tower/>



Energetic Approach

The project, situated in the centre of the city block, proposes a smooth dialogue with the urban grid and many challenges:

- Contributing to the development of a low-carbon territory
- Developing constructive solutions leading to a reduction of the work site disturbances
- Helping in the structuration of the building timber sector with a multiplication and a higher visibility of the timber realizations on the Euratlantique site
- Designing an emblematic project that will lighten the timber sector: a 57-metre-high wood building.

ISSN : 2575-5374

urbanNext Lexicon

Hypérion Housing Tower
<https://urbannext.net/hyperion-housing-tower/>

ISSN : 2575-5374

urbanNext Lexicon

Hypérion Housing Tower
<https://urbannext.net/hyperion-housing-tower/>



View from Armagnac Street / Heart of the project

The square, conceived to articulate the urban functions and circulations on the ground floor, sets the tower and its roots. The tower emerges and rises up to the 18th floor, surrounded, like the petals of a flower, by 9- and 8-story buildings.

At the tower foot, a lower-height housing complex is articulated. The form allows for multiplying the surface of the façades, opening onto the best orientations, searching for the best views and letting

ISSN : 2575-5374

urbanNext Lexicon

Hypérion Housing Tower
<https://urbannext.net/hyperion-housing-tower/>

the sun penetrate into the heart of the site, shining into the garden.

ISSN : 2575-5374



View from courtyard

The tower is accessible from the square. The central distribution block, stairs and elevator, and the first three levels are built in concrete. This rigid column is then completed by a timber structure, constituted by posts and beams. The flooring and the partitions are in cross-laminated timber. The post beam system, suppressing the structural panels, offers adaptability for the accommodations in terms of typologies and distribution, following the evolution of each particular family. The building is a superposition of houses.

Here, the design proposes to cover the protected underside of the balconies with wood (some of them are cantilevered up to 5 m). Visible from the ground floor, these horizontal planes will contrast with the brighter colour of the steel cladding and will affirm the details of this façade, emphasizing movement and stacking.

urbanNext Lexicon

Hypérion Housing Tower
<https://urbannext.net/hyperion-housing-tower/>



Master Plan and Roof Plan

ISSN : 2575-5374

