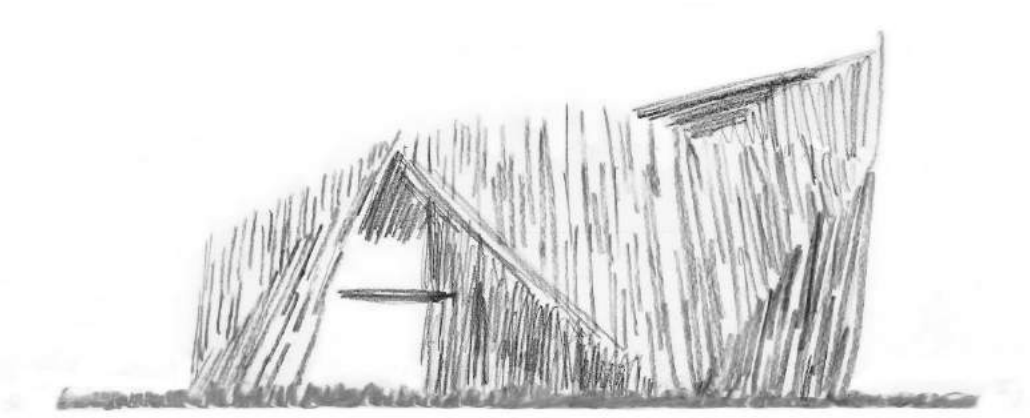
The Cycle

Oslo
13-14 juin 2017

KENGO KUMA & ASSOCIATES

Content

ACT 1 [HUMILITY FACING NATURE]

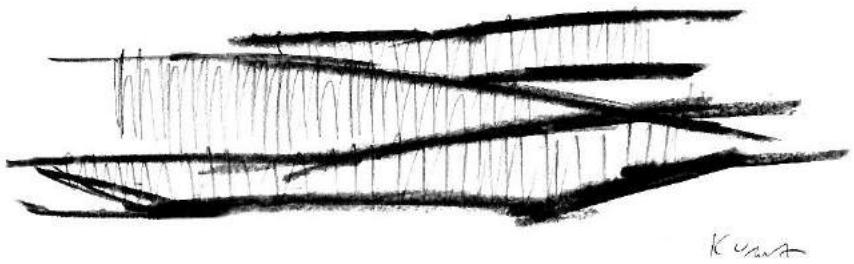


The tree oak and the reed (Tale) - Jean de la Fontaine 1661-1695

The great wave off Kanagawa,1831 - Katsushika Hokusai 1760-1849

Mont-Blanc Base Camp 2016

ACT 2 [DESIGN IS A CITIZEN ACT]



Saint-Denis Pleyel train station 2023

Saint-Denis Pleyel train station

Saint-Denis Pleyel train station

Saint-Denis Pleyel train station

Nagaoka City Hall Aore Project

Nagaoka City Hall Aore Project

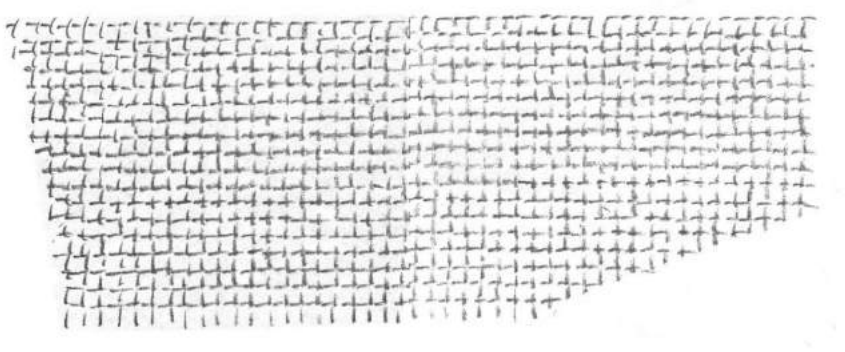
Traditionnal method of Tataki and Nakadoma functioning as meeting point for the community

Nagaoka City Hall Aore Project

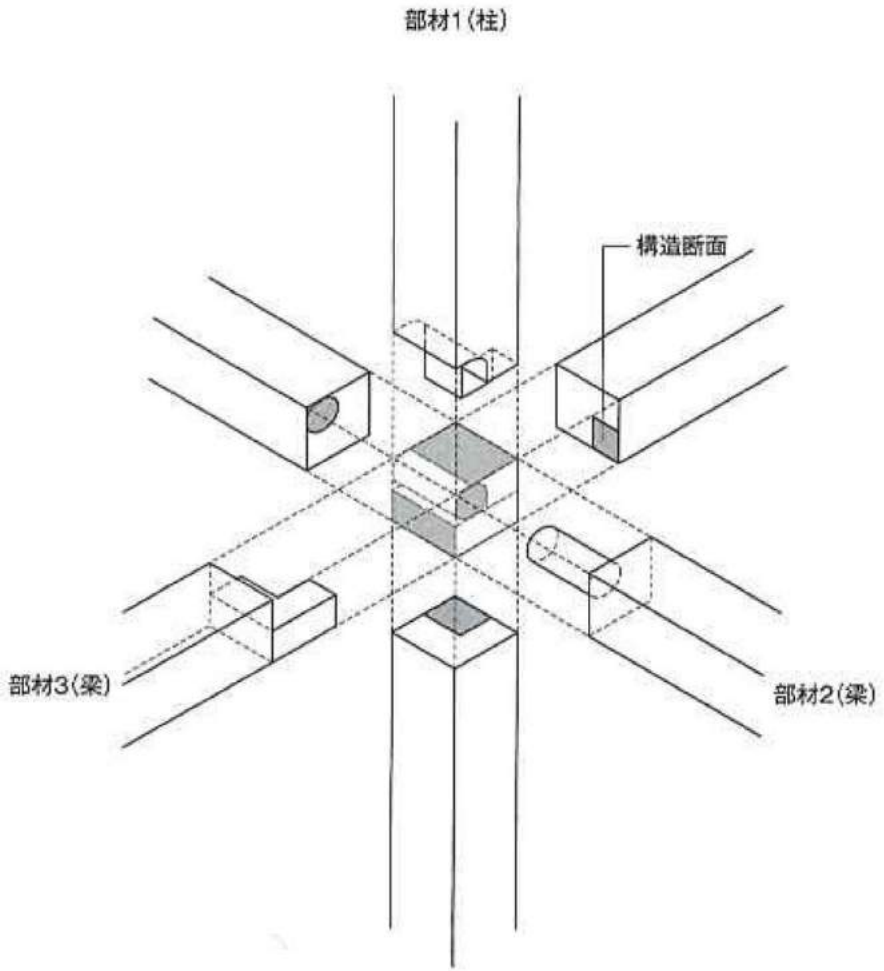
Nagaoka City Hall Aore Project

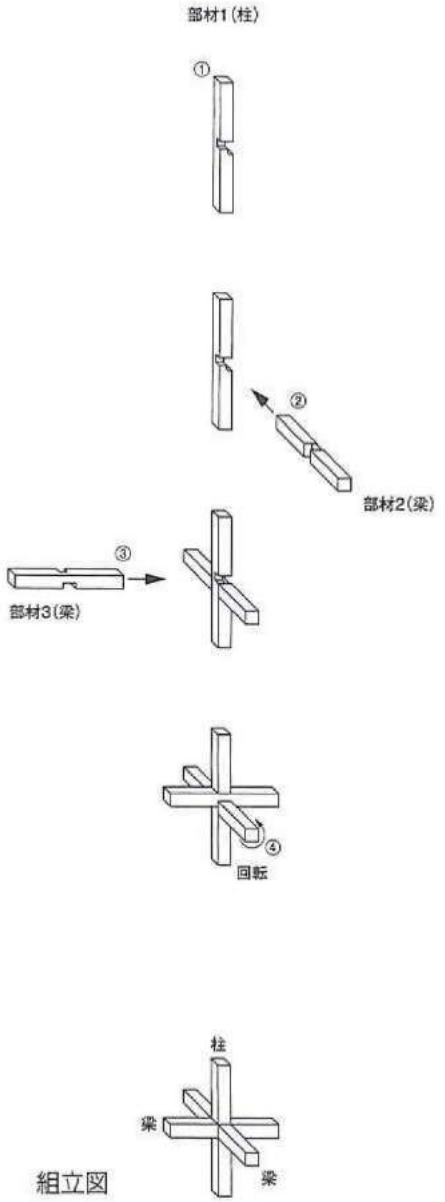
Nagaoka City Hall Aore Project

ACT 3 [THINK SMALL FOR LARGE SUSTAINABLE EFFECTS]



Prostho Museum Research Center, Kasugai-shi, Japan 2010





組立図

Prostho Museum Research Center

“Chidori” notching

Prostho Museum Research Center

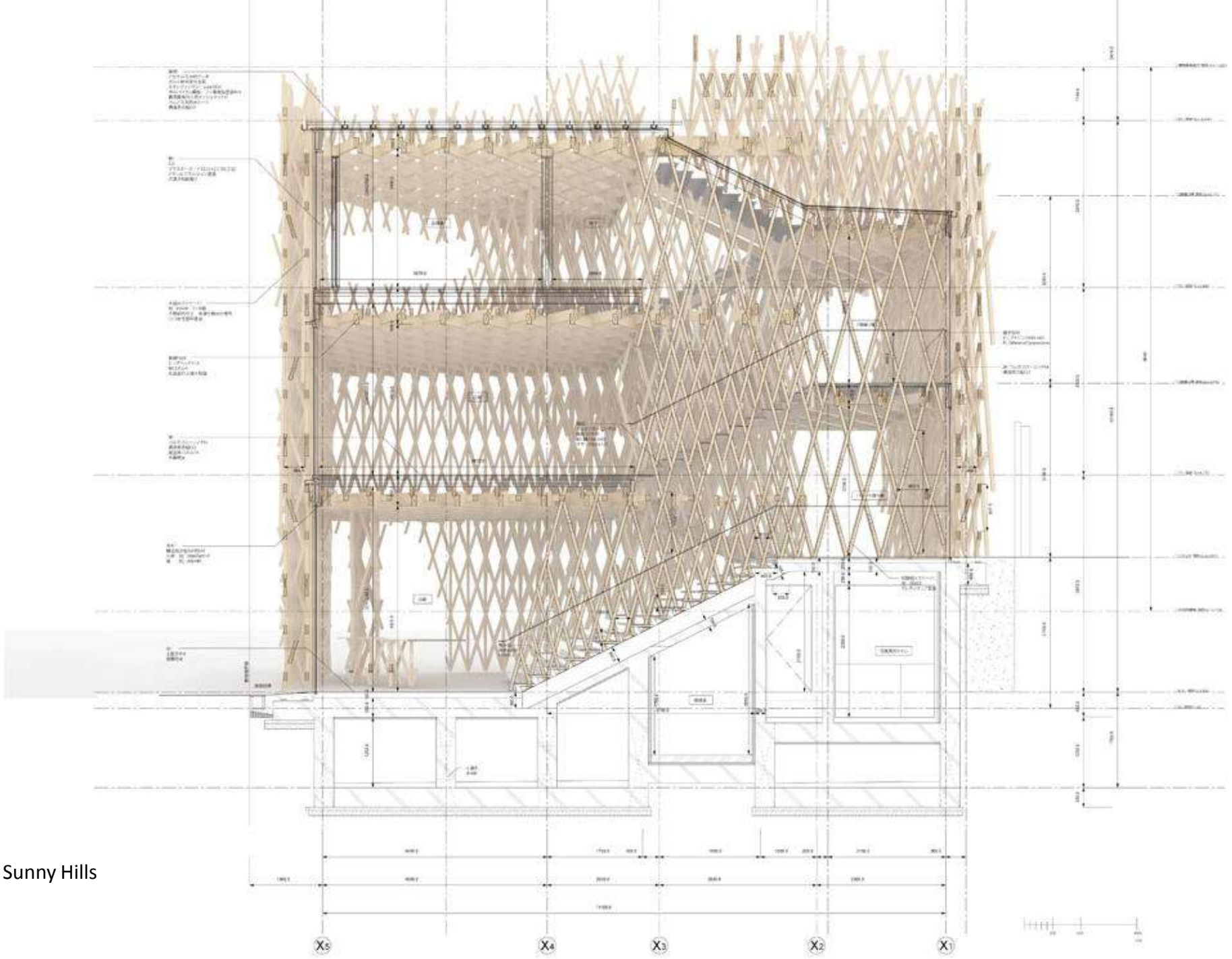
Prostho Museum Research Center

Sunny Hills Aoyama

Sunny Hills Aoyama

Sunny Hills Aoyama

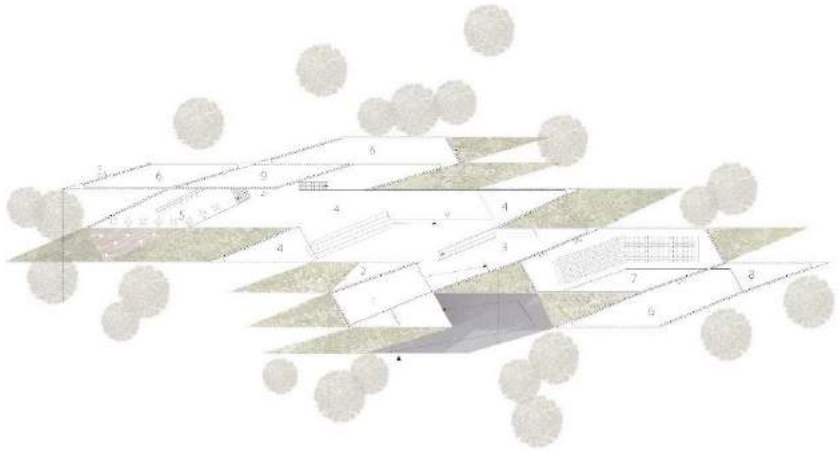
Joint system “Jiigoku_Kumi”



Sunny Hills

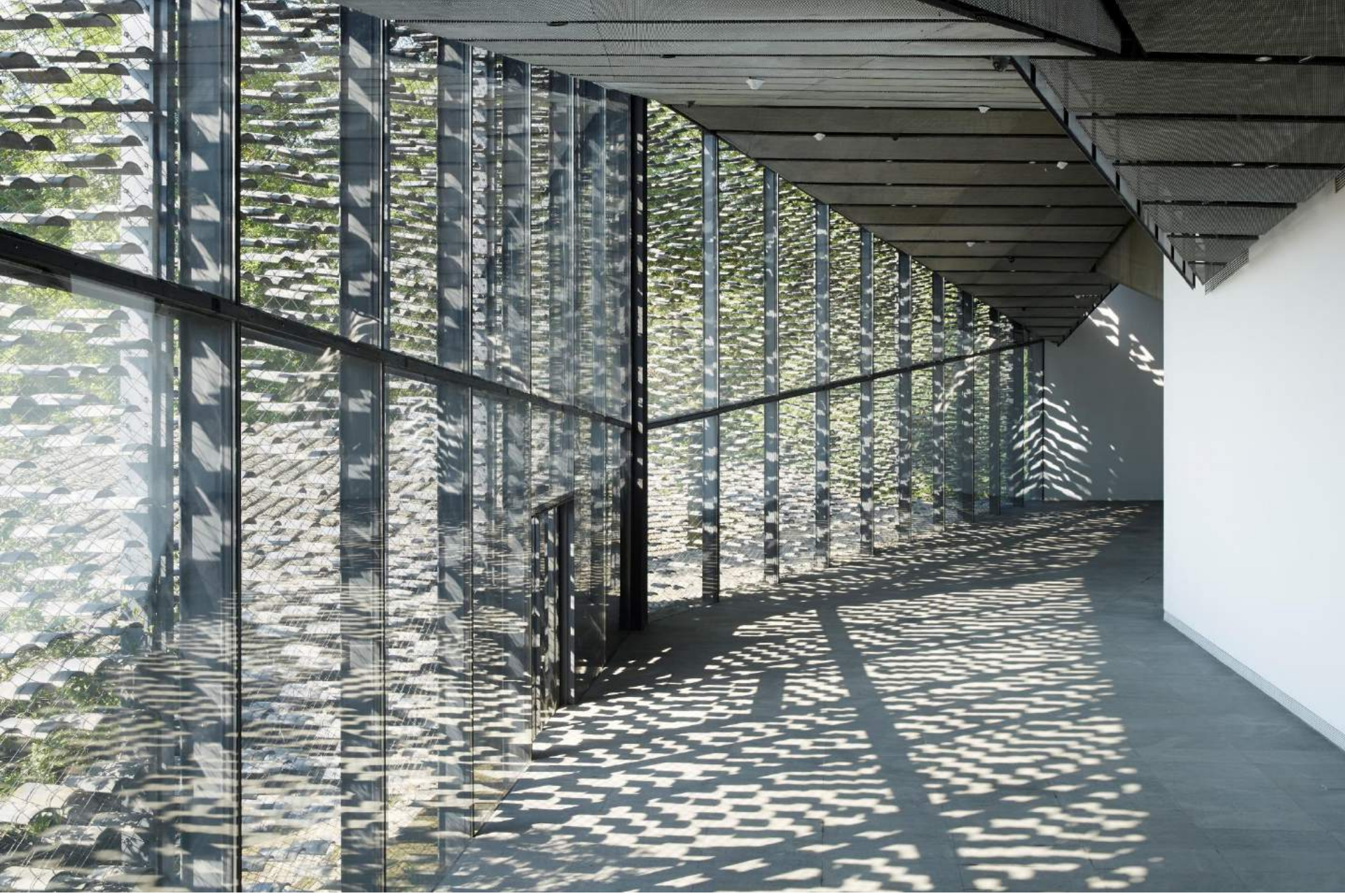
Sunny Hills

ACT 4 [REGENERATION & REUSE RATHER THAN EXPANSION]

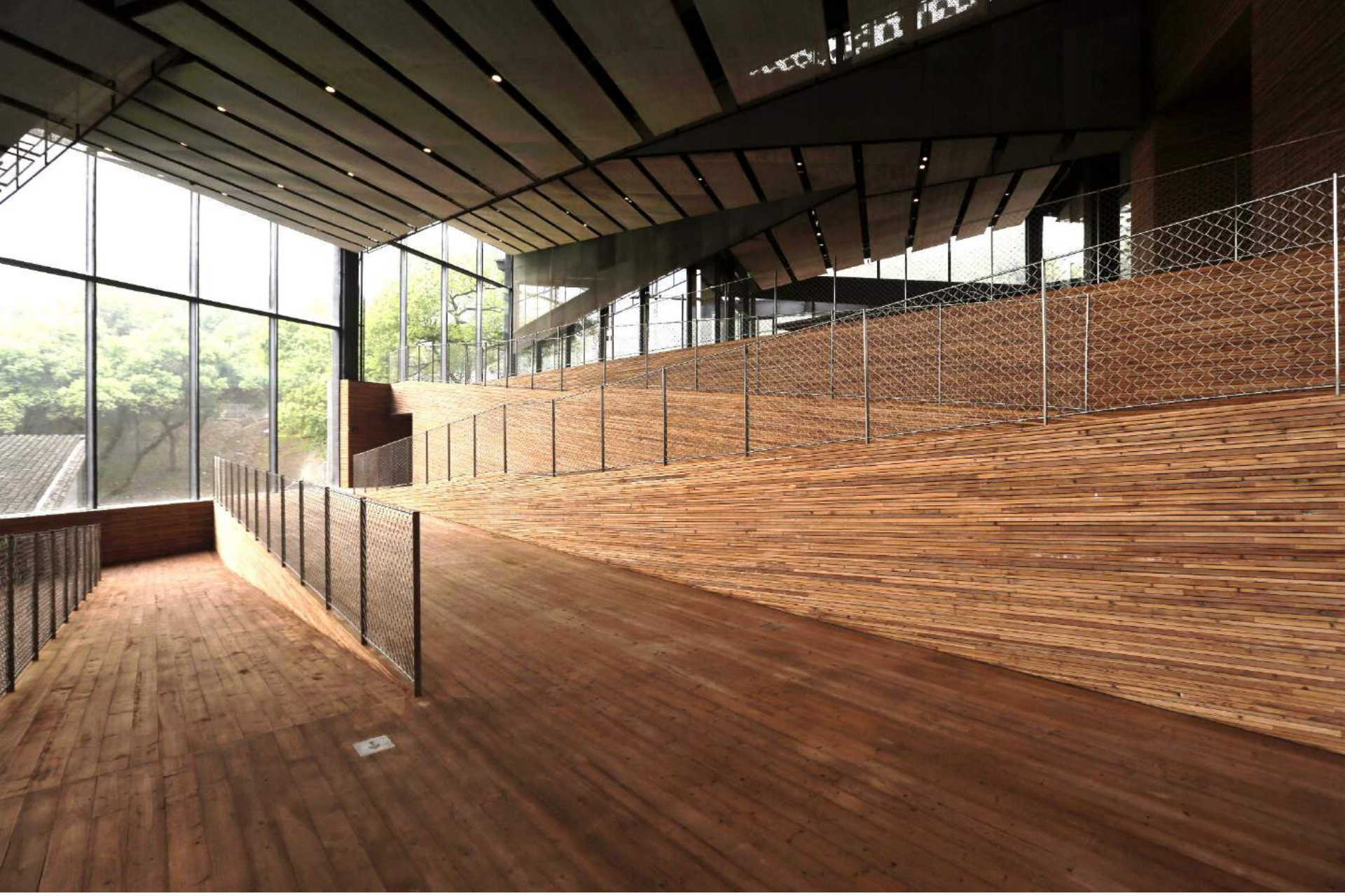


China Academy of Art’s Folk Art Museum

China Academy of Art’s Folk Art Museum

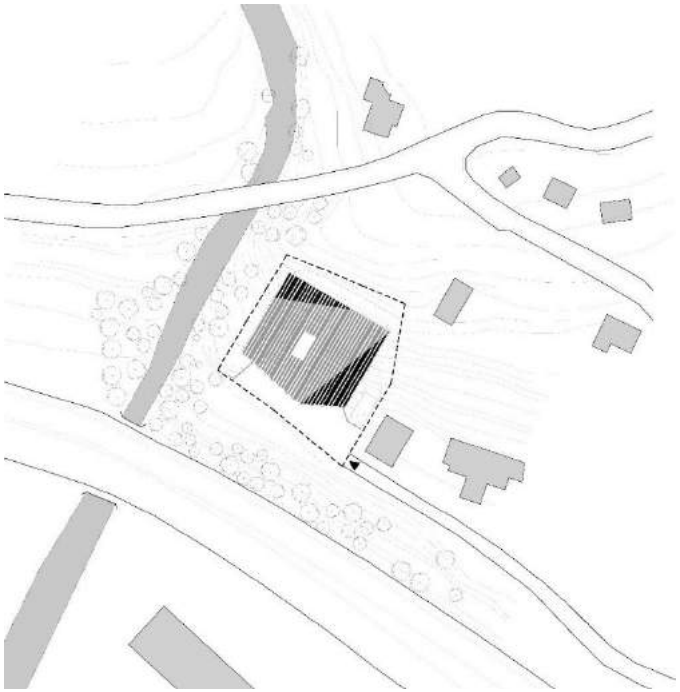


China Academy of Art’s Folk Art Museum



China Academy of Art’s Folk Art Museum

ACT 5 [USE OF NATURAL MATERIALS & RESOURCES TRACEABILITY]



Mont-Blanc Base Camp, Les Houches, France 2016

HotelSlalom

1 Project Data

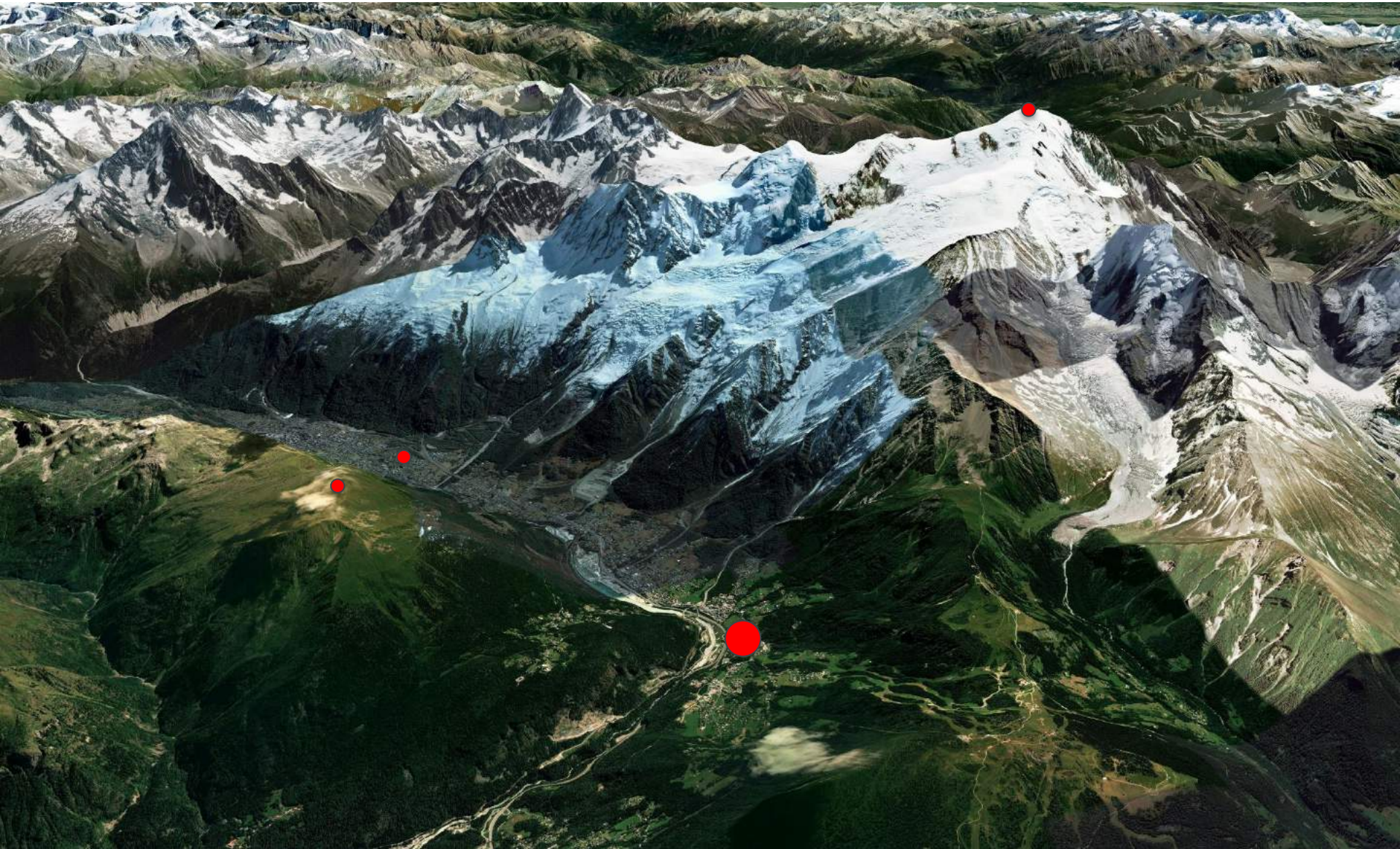
Design period:	2013-2014
Construction period:	2014-2016
Client:	Blue Ice
Budget:	5 200 000 euro
Location:	336, route du NANT Jorland, 74310 LES HOUCHES FRANCE
Program:	Blue Ice headquarter and workshop - Mountain equipment Micro hub - Co-working
Total floor area:	2500 sqm
Structure:	Mixed structure : wood (upper level and roof) concrete (basement and ground floor)
Maximum height:	+15 m (3 stories - 1 basement)
Main materials :	Wooden structure : Spruce Exterior facades : Oak planks with bark - charcoal metal cladding Roof : Oak planks with bark - charcoal metal roofing stading joint – slender skylights Interior walls : Brushed white oak panels - satin finish white painting Ground : Satin concrete finish (ground floor) - brushed white oak parquet (upper floors) Ceillings : Acoustic wooden fiber

Pointe de Lapaz (alt. 2313m)

Chamonix (alt. 1000m)

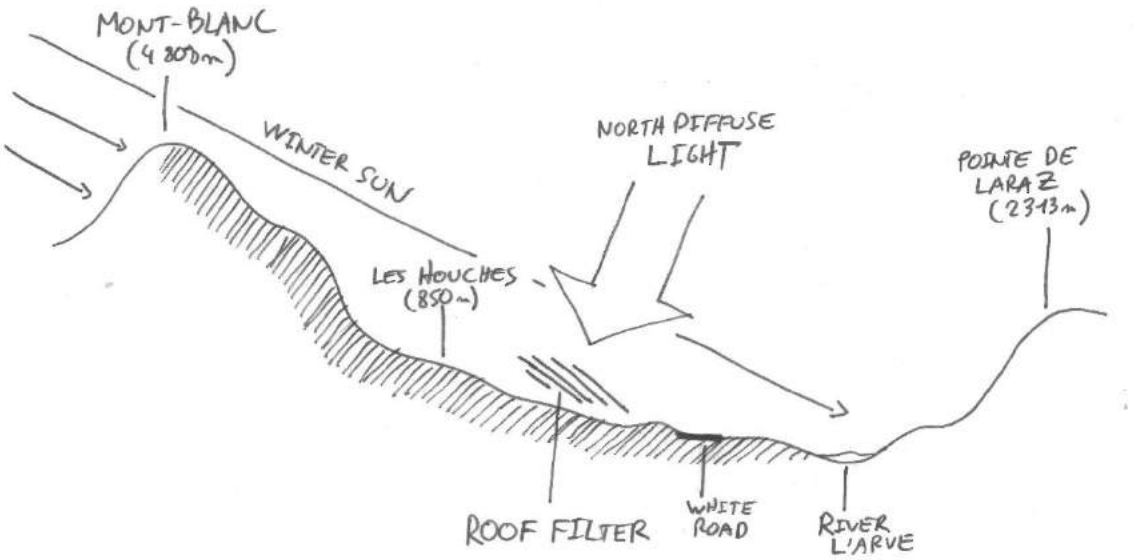
Les houches (alt. 850m)

Mont-Blanc (alt. 4810m)



2 Approach

The Roof Filter



The Roof Filter allows to bring natural light constantly in the heart of the project reducing the use of artificial lightning.

The Roof Filter

Models studies

The Roof Filter

Synthesis

2 Approach

Synthesis

Our idea was to create a wide roof perforated by lines of light running from north to south, following the natural slope of the site, under which the program is implemented.

Main entrance – North West

3 Structure

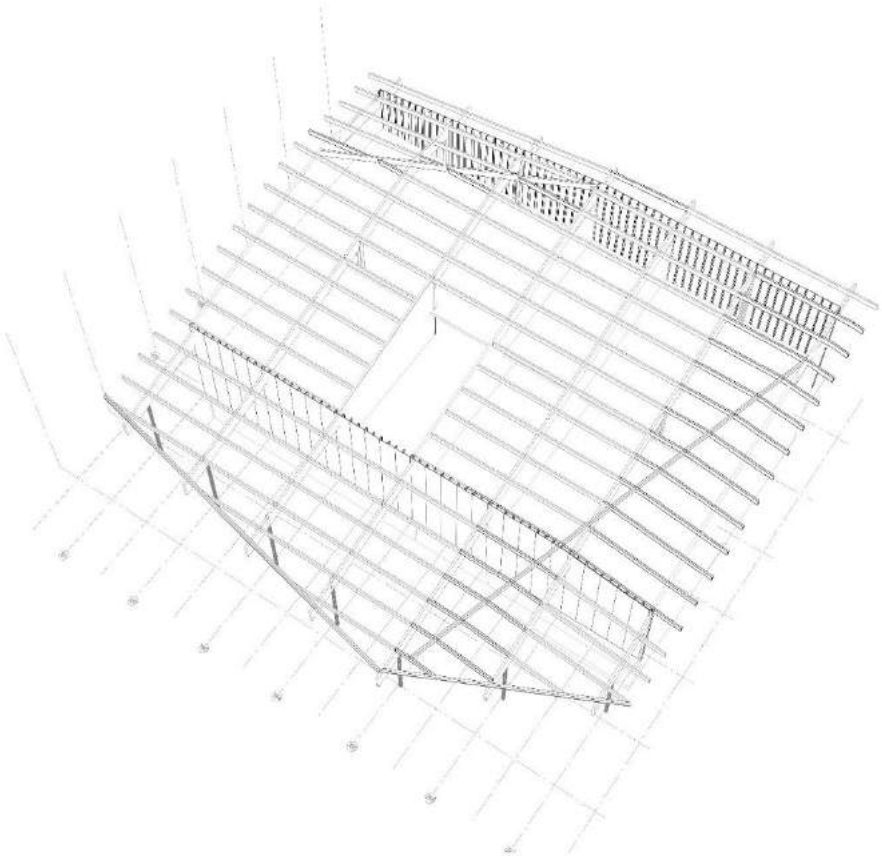
Building dimension : 60m x 20m Frame : 6m x 12m

Tie bar S460 diam. 16mm

Main rafter arch wood 16x116 (Laminated)

Binding rafter 12x40 (Laminated)

Panne BLC en PAF

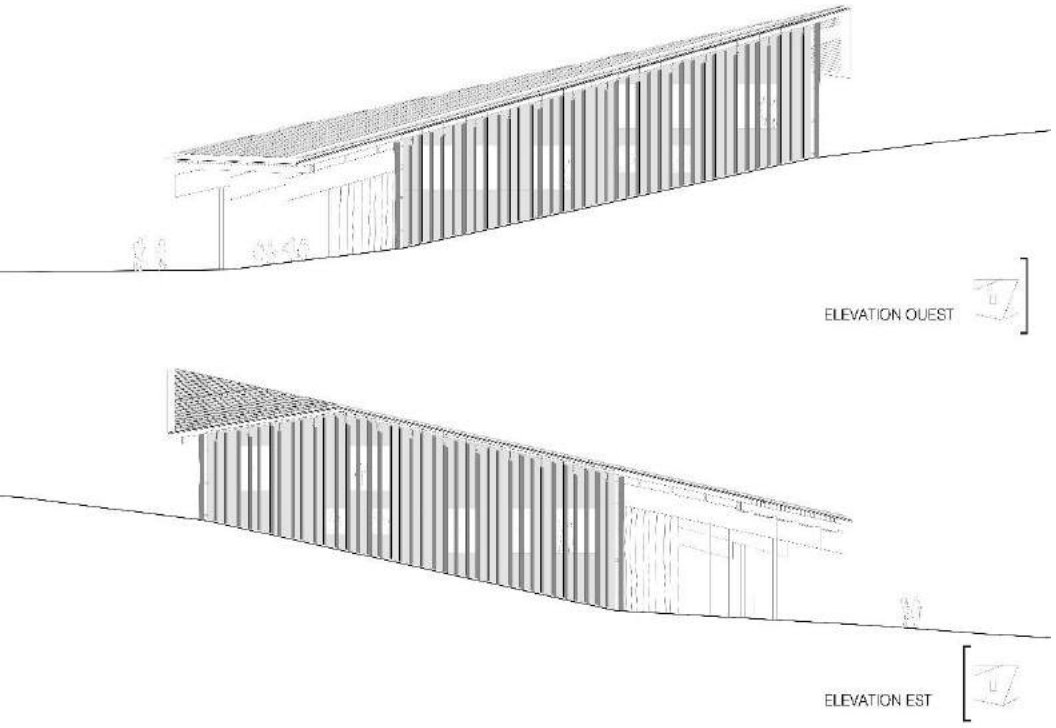


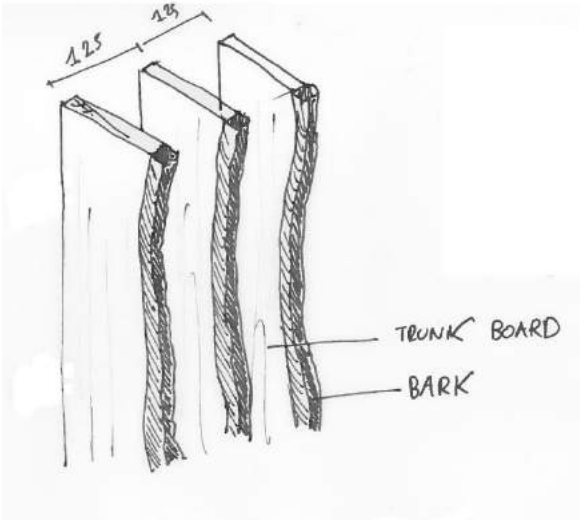
4 Facades principles

4 Facades principle

Est and West

On the East and West facades, the boards are positioned perpendicular to the facades with the natural shape and the bark preserved on the outside.



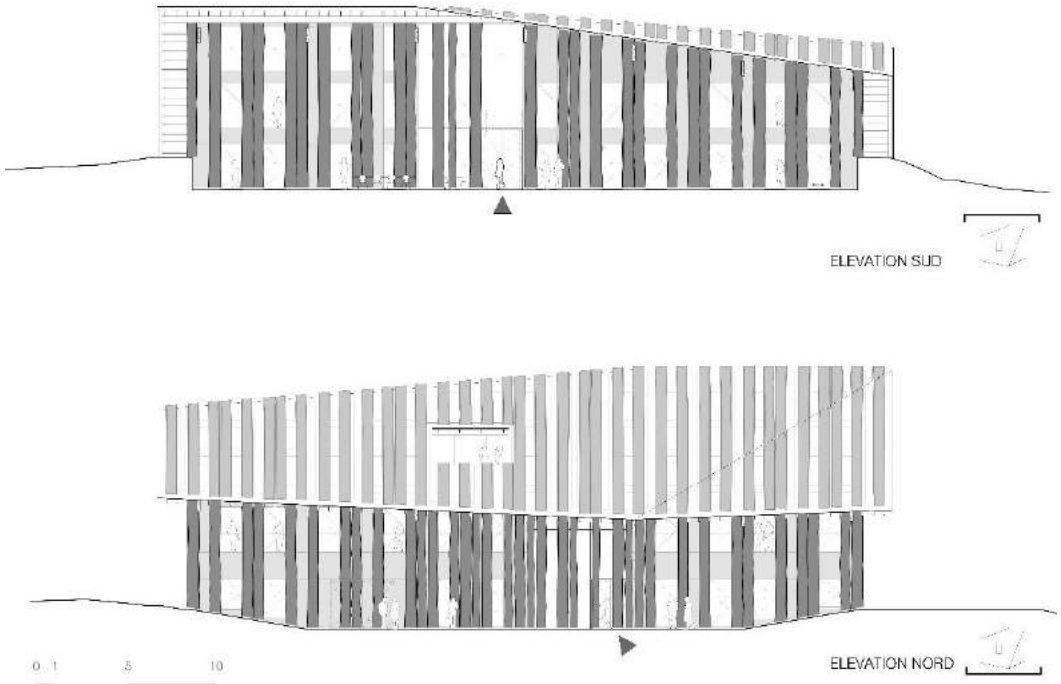


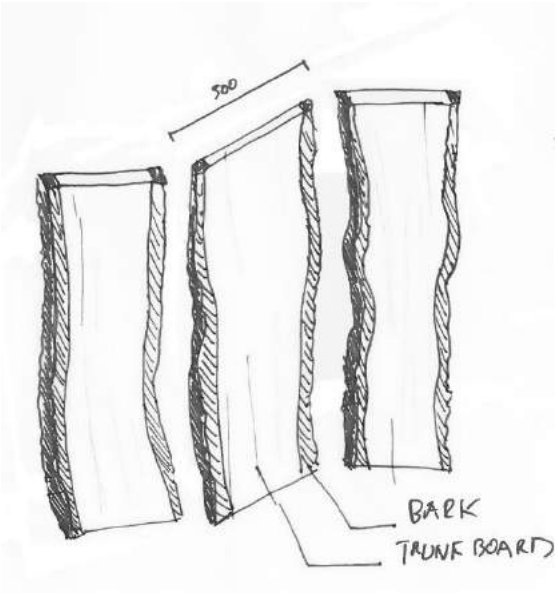
Mont-Blanc Base Camp

4 Facades principle

North and South

On the North and South, the wooden boards are parallel to the facades with slight inclinations which creates vibration and variation.

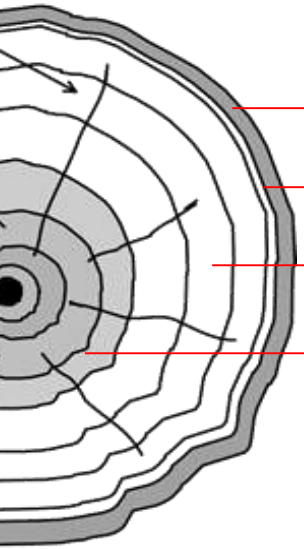




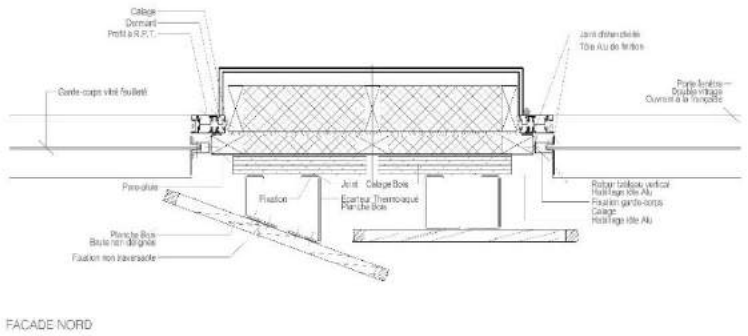
Mont-Blanc Base Camp

4 Facades principle

Treatment

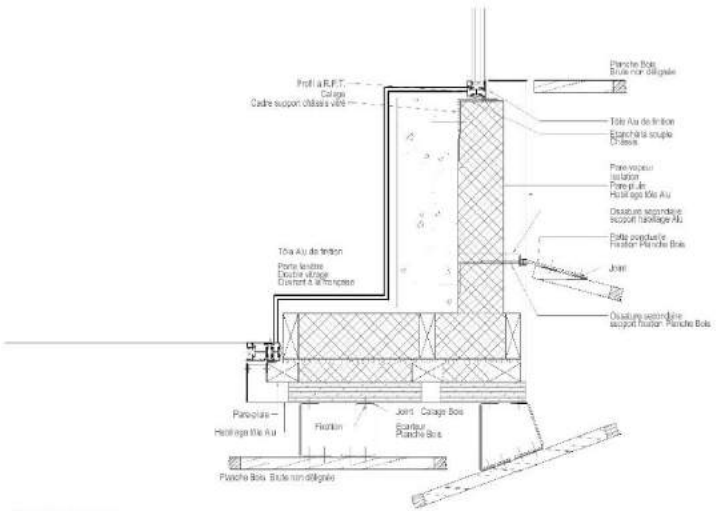

Bark
Cambium
Sap wood
Heart wood

Elevation Ouest



FACADE NORD

The wooden boards are positionned to be visible from the interior



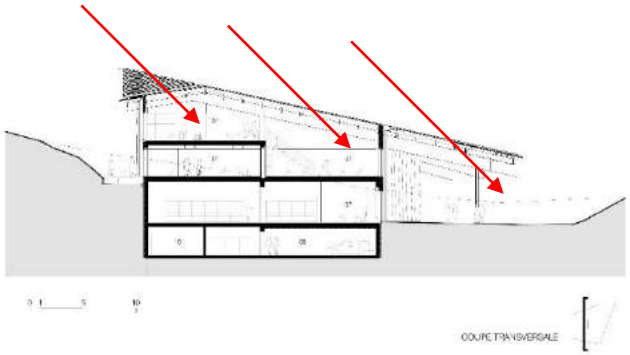
ANGLE NORD EST

DETAILS FACADE ET FIXATION DU BOIS

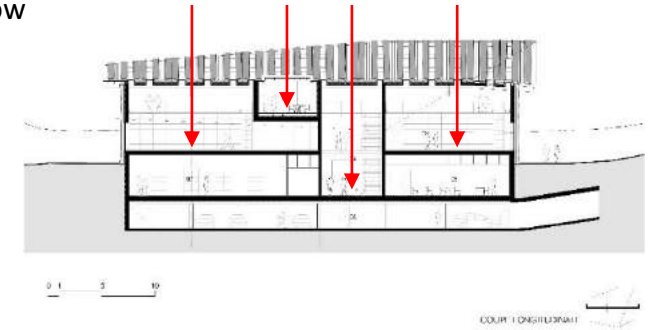
11

Wooden board (60cmx1100cm) in the entrance are fixated with a T 14x14

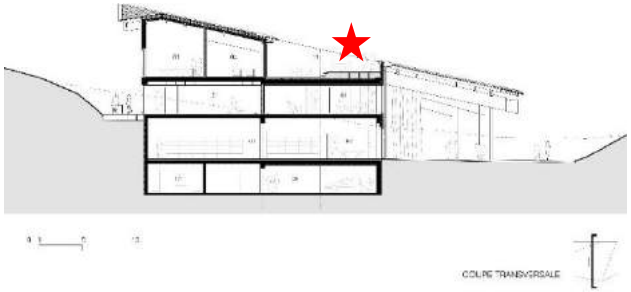
5 Roof principle



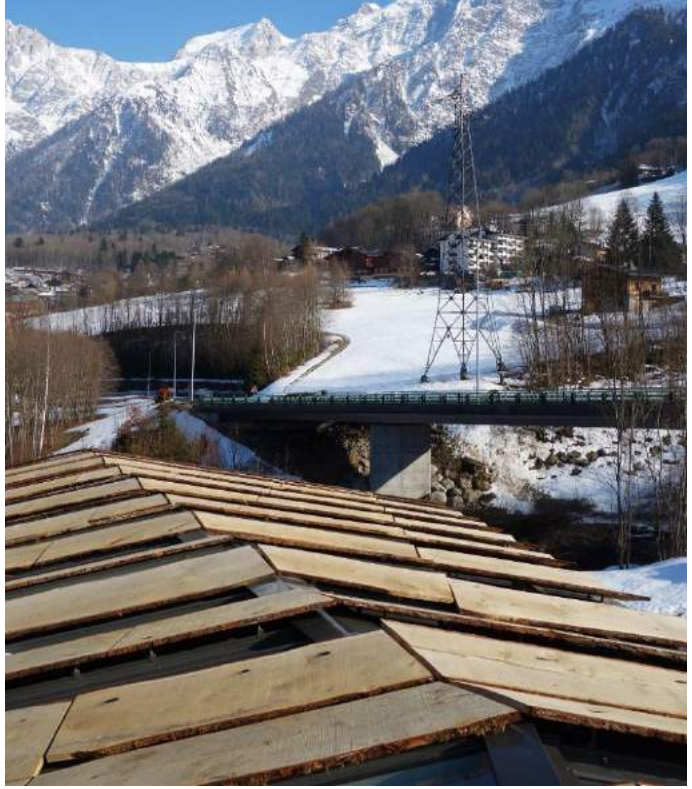
The roof filter brings light in the wide building while protecting from heavy snow



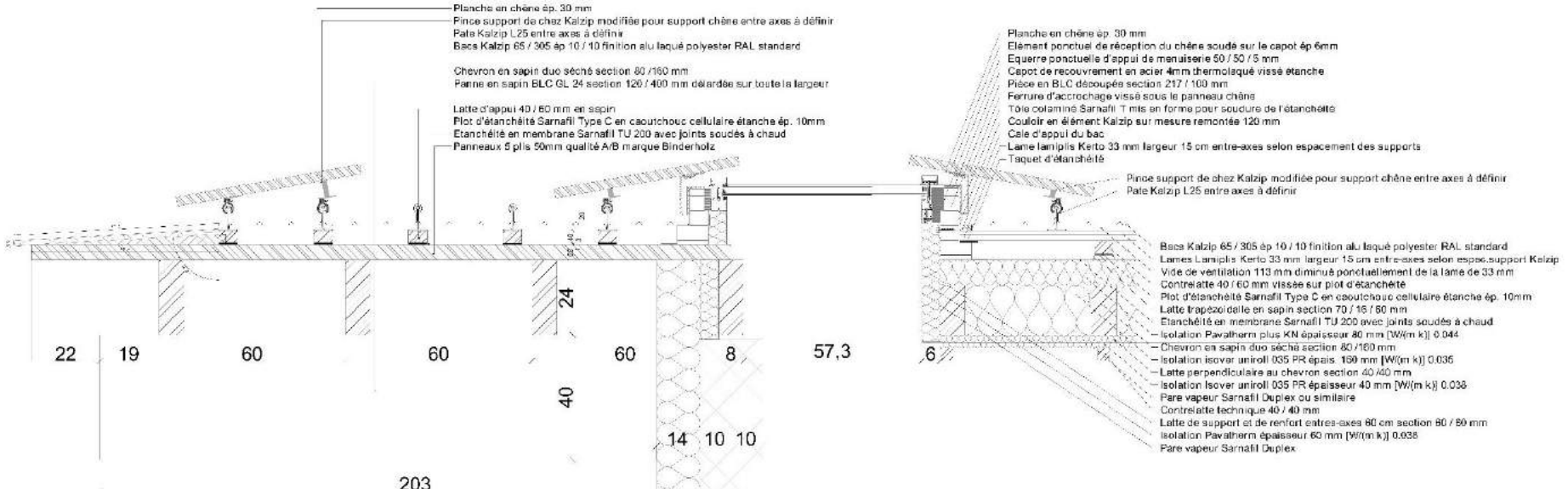
The main North orientation of the roof permit smooth and almost constant light in the interior spaces



A large terrace emerges in the heart of the filtered roof. It opens 360 degrees on the valley



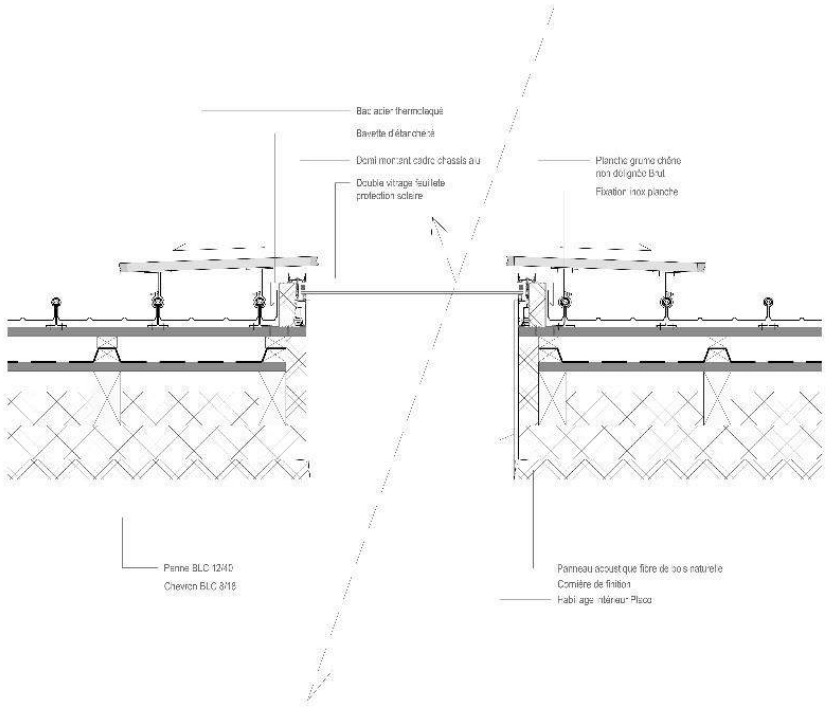
Roof composition : Oak boards – Standing joint aluminum roof - Glass roof



5 Roof principle

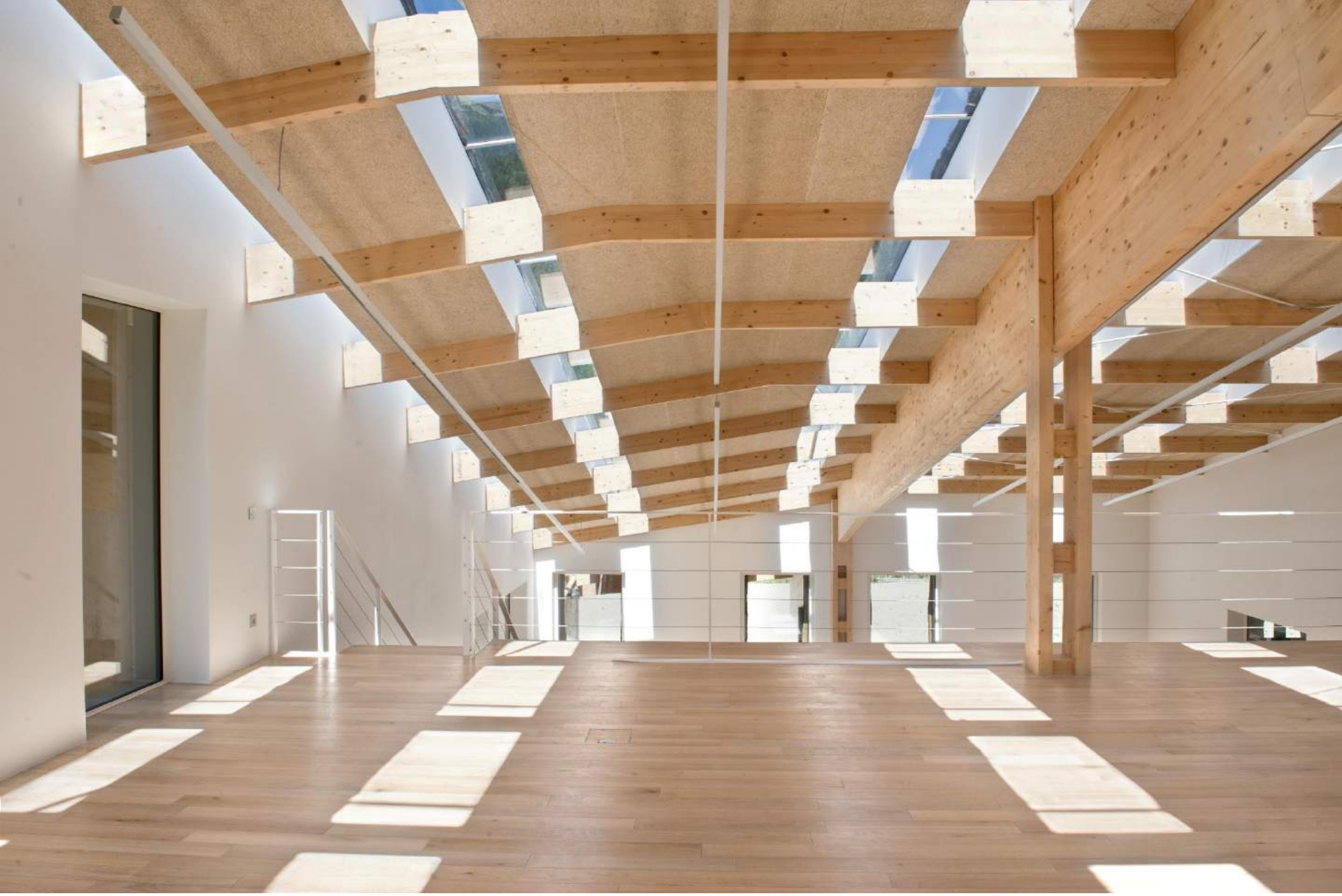
Detail

Detail



0 0.1 0.5 1.0

COUPE DETAIL VERRIERE LONGILIGNE- ECLAIRAGE ZENITHALE

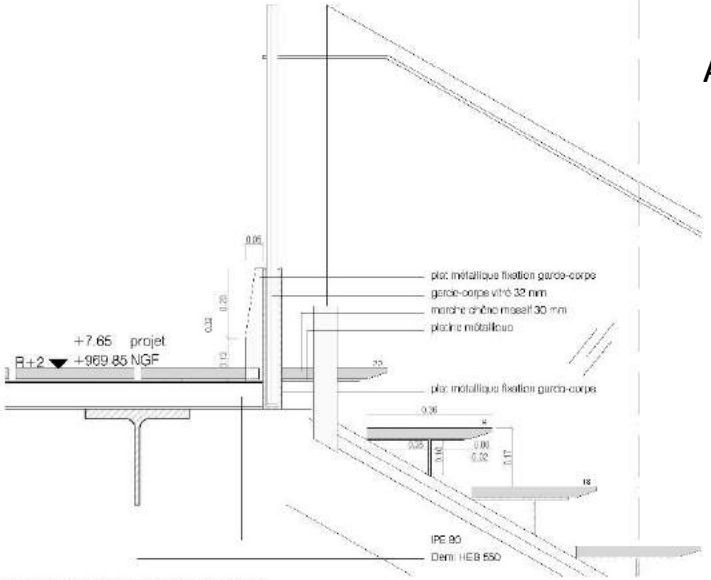


R+2 – Open space Blue-Ice

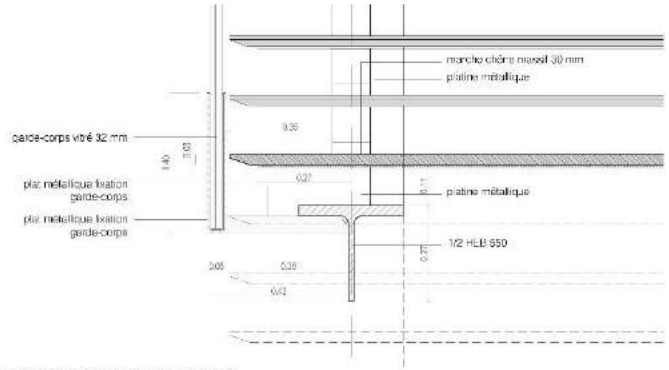
R+2 Offices

06 Interior

Atrium



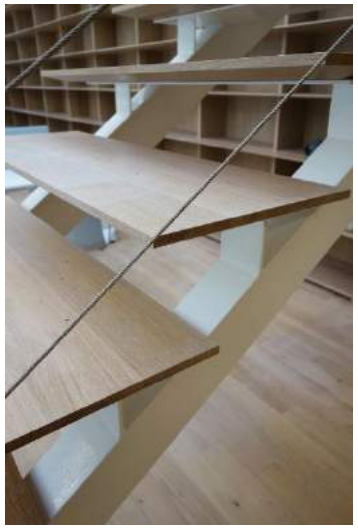
COUPE GARDE-CORPS VITRE NIVEAU 2



COUPE GARDE-CORPS VITRE ESCALIER

0 0.10 0.25 0.50

COUPES DETAILS ESCALIER ATRIUM

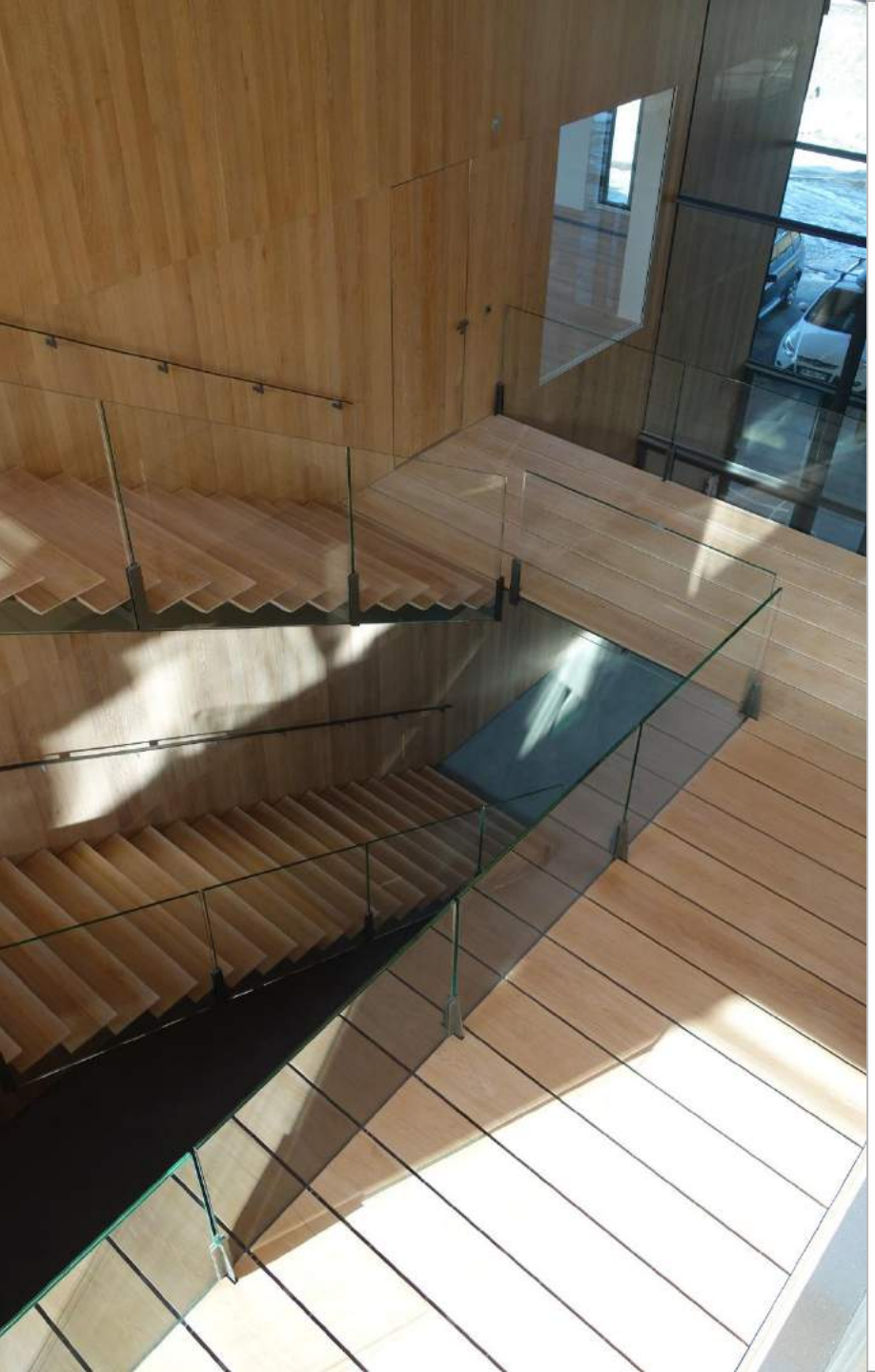


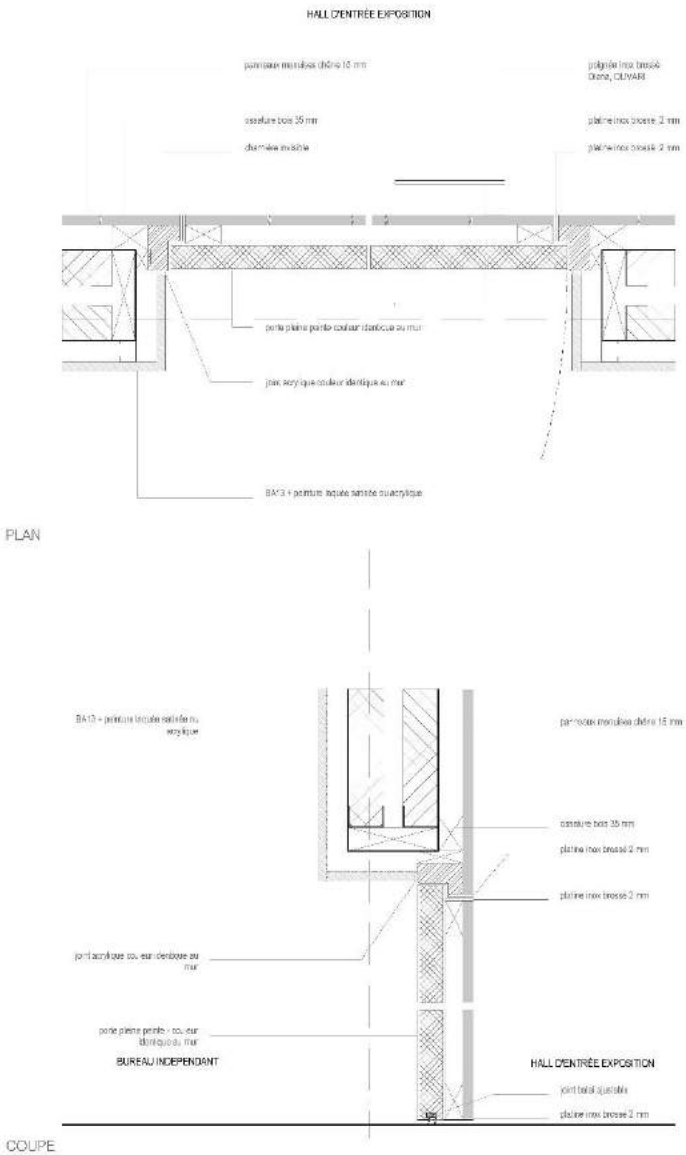
Open-space

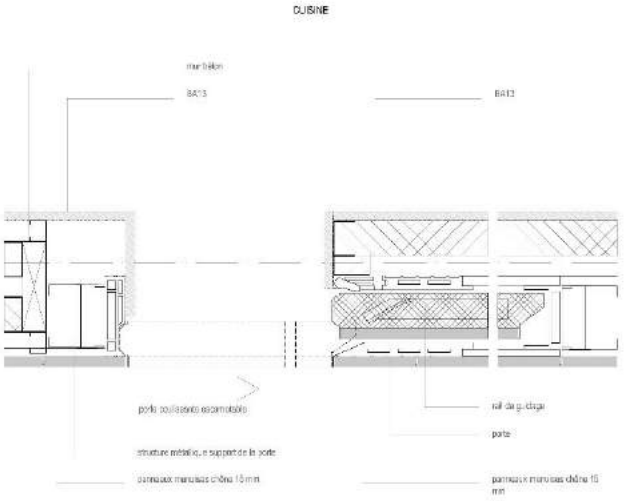
Atrium

Interior

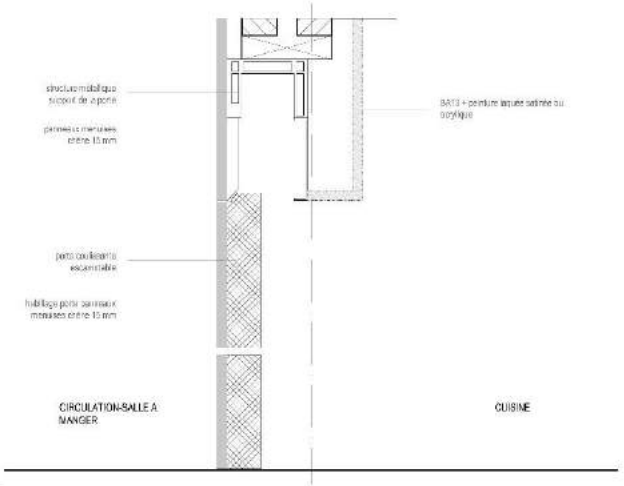
Doors







PLAN



COUPE

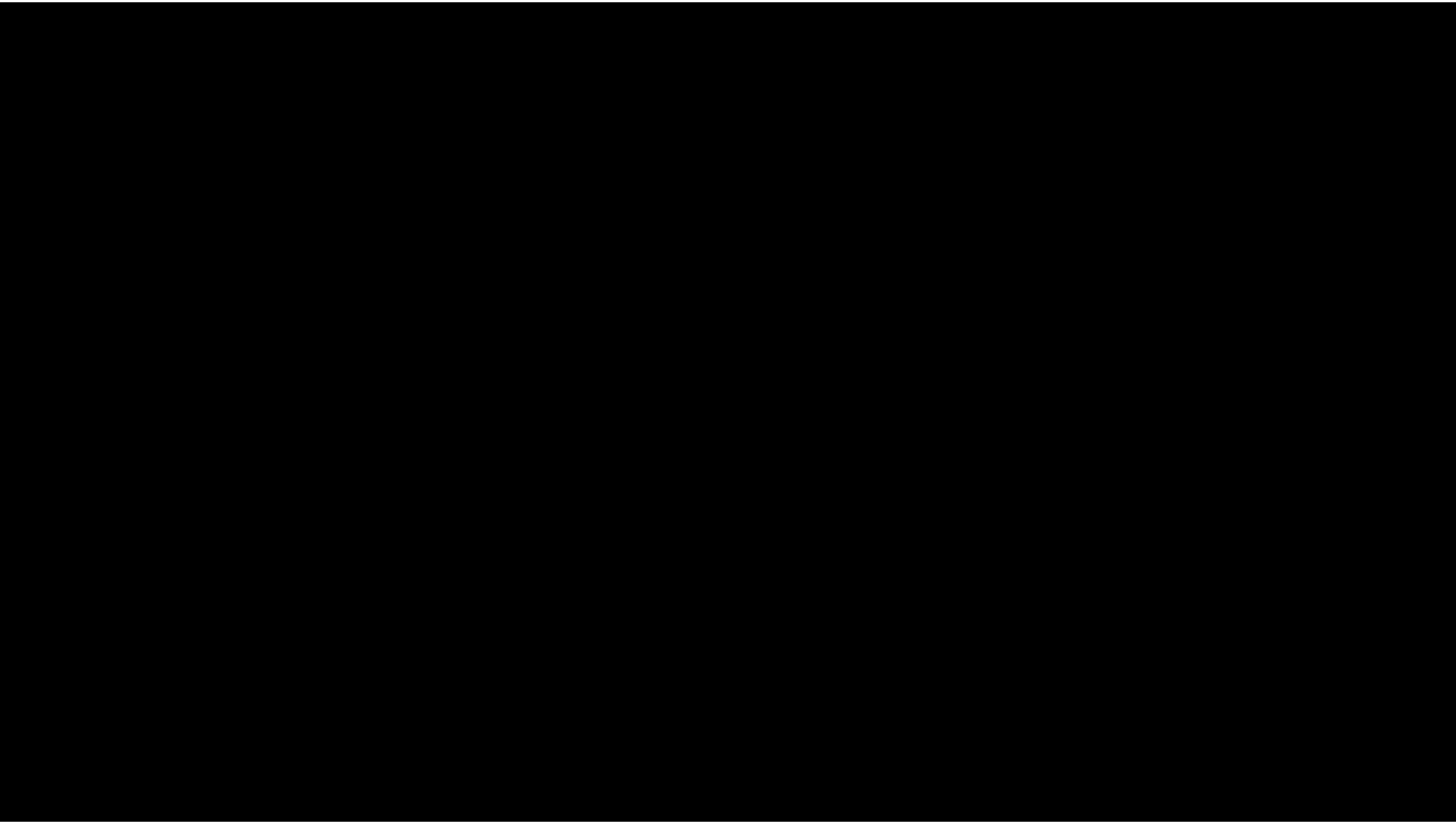
0 0,10 0,25 0,50

DETAIL PORTE COULISSANTE AFFLEURANTE

View – R+1 Open space

Night view – South Facade

Kengo Kuma, December 2015



Movie Mont-Blanc Base Camp

The H.C. Andersen’s House of Fairy Tales in Odense

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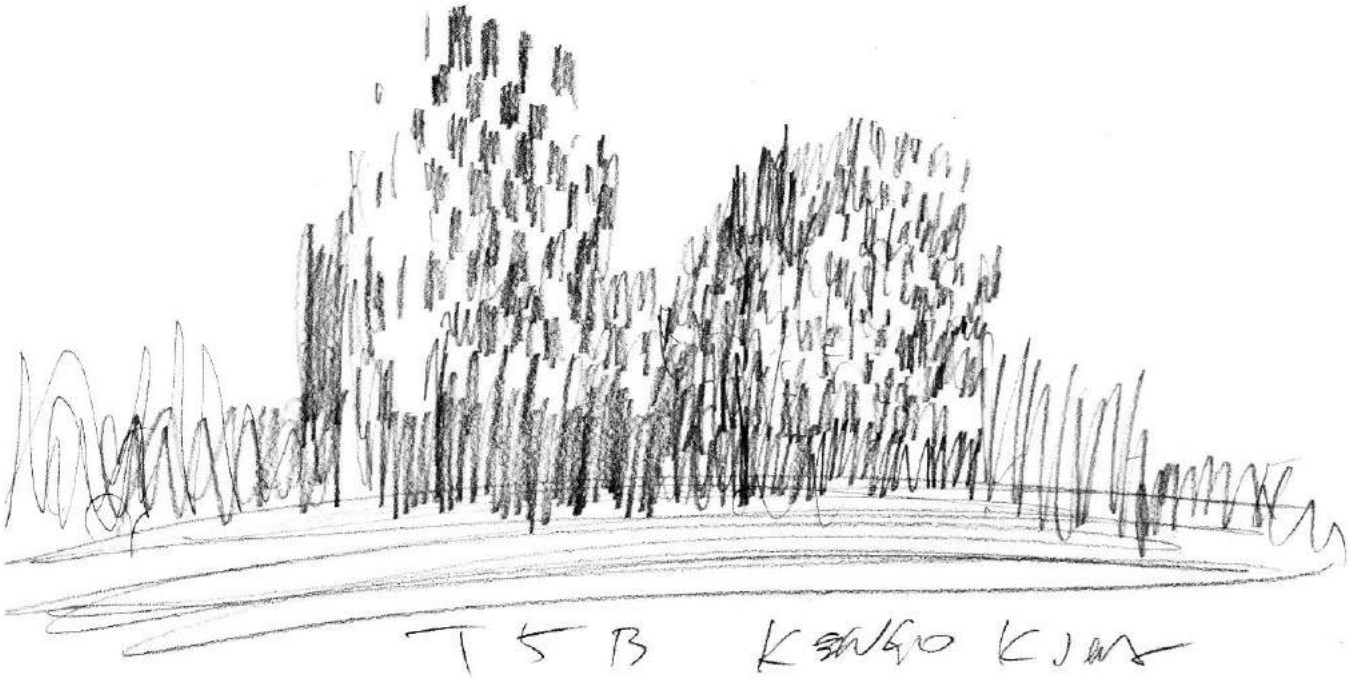
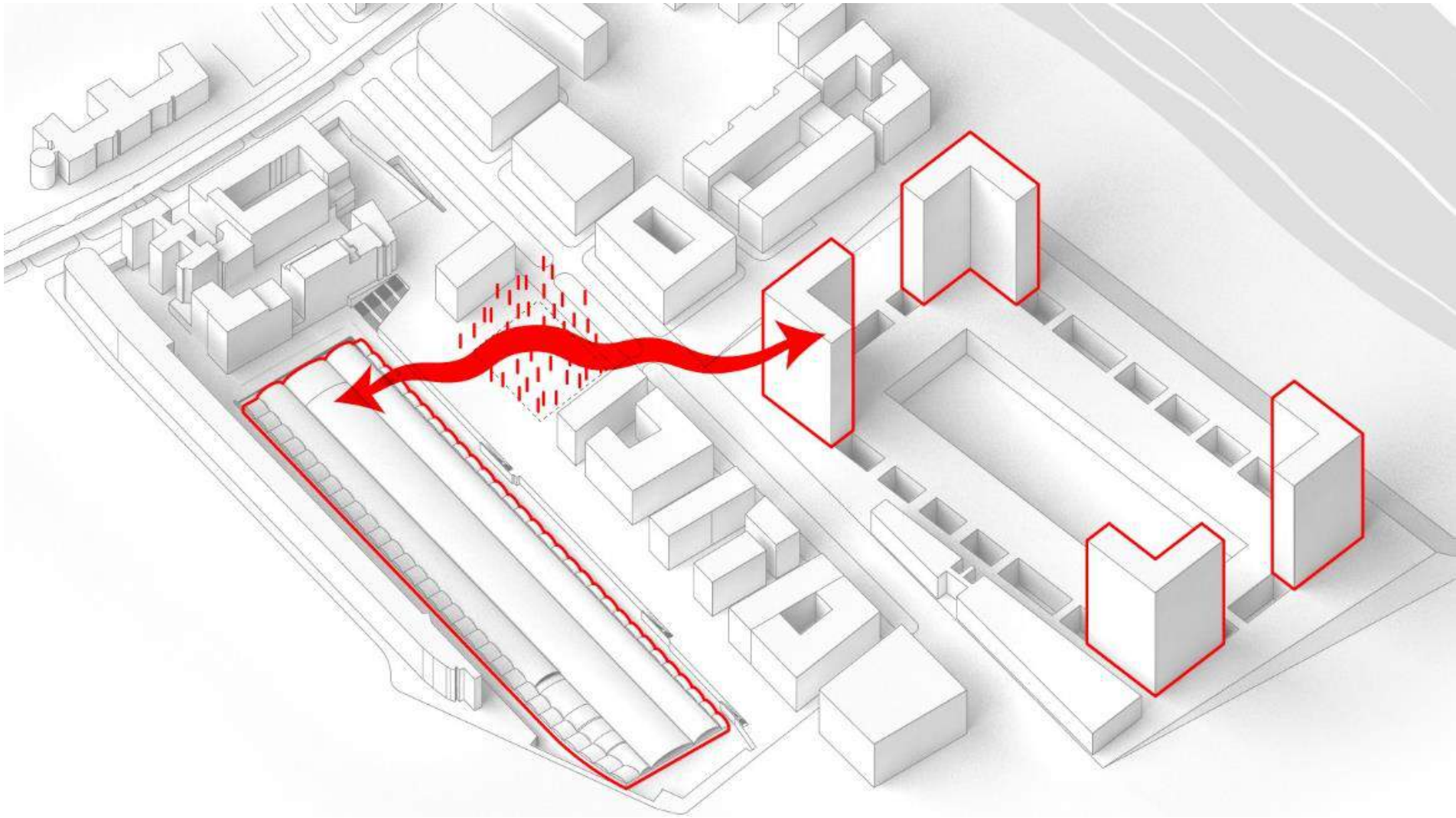


Aurore T5B, France 2017

Transition between culture and innovation



1Hotel Paris

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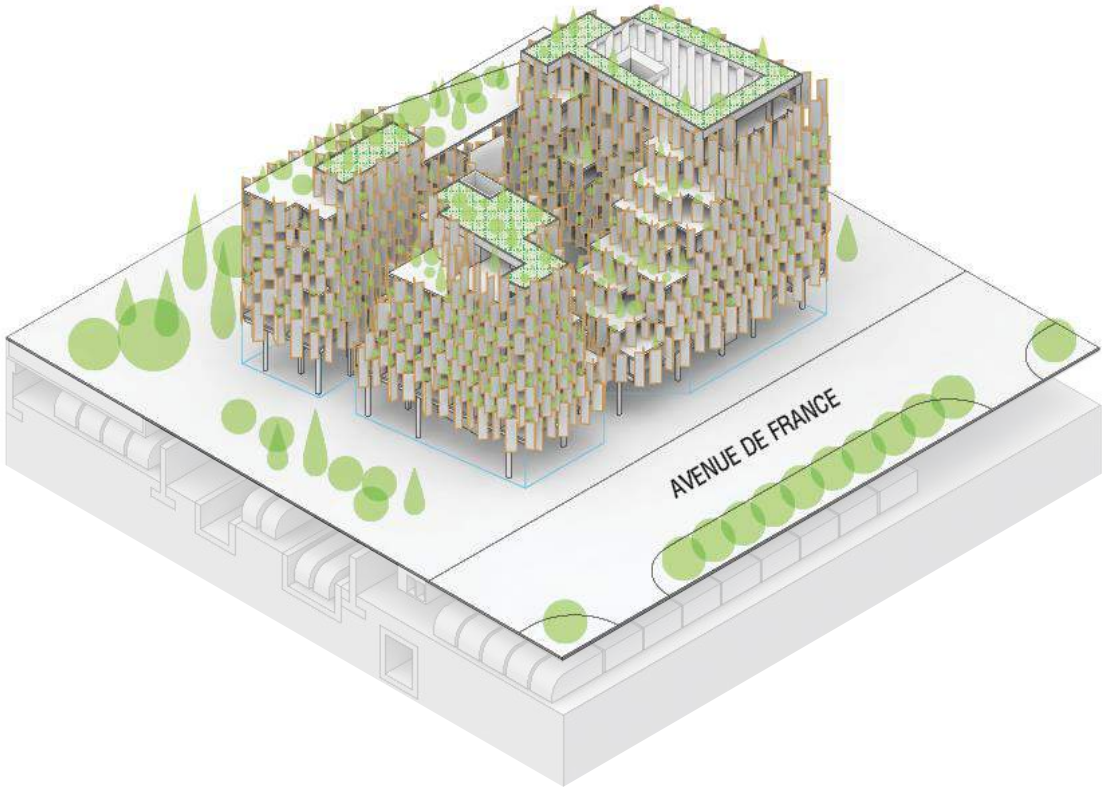
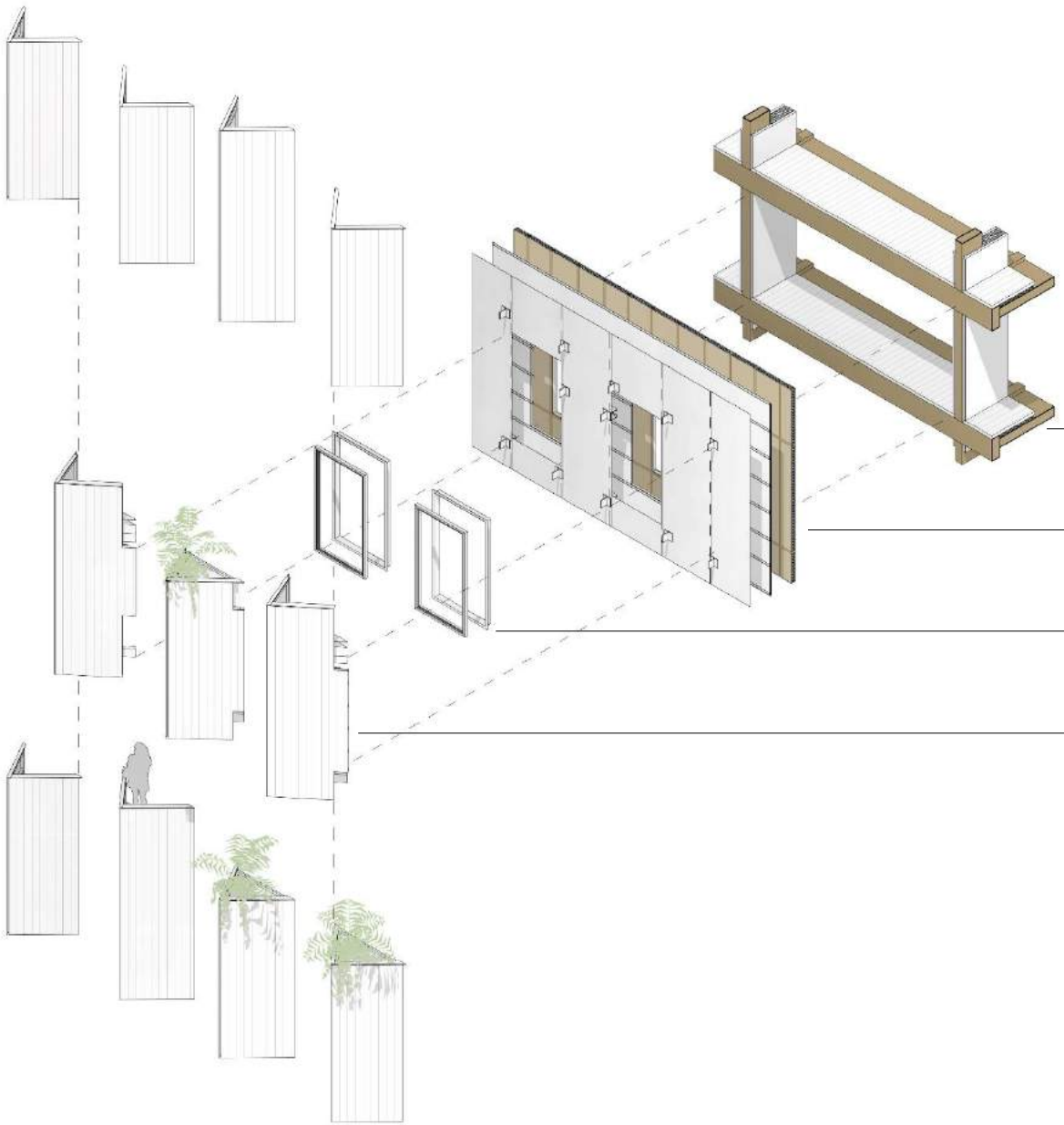
1Hotel Paris

Un système constructif ambitieux pour un bâtiment-pont



1Hotel Paris

Facade composition

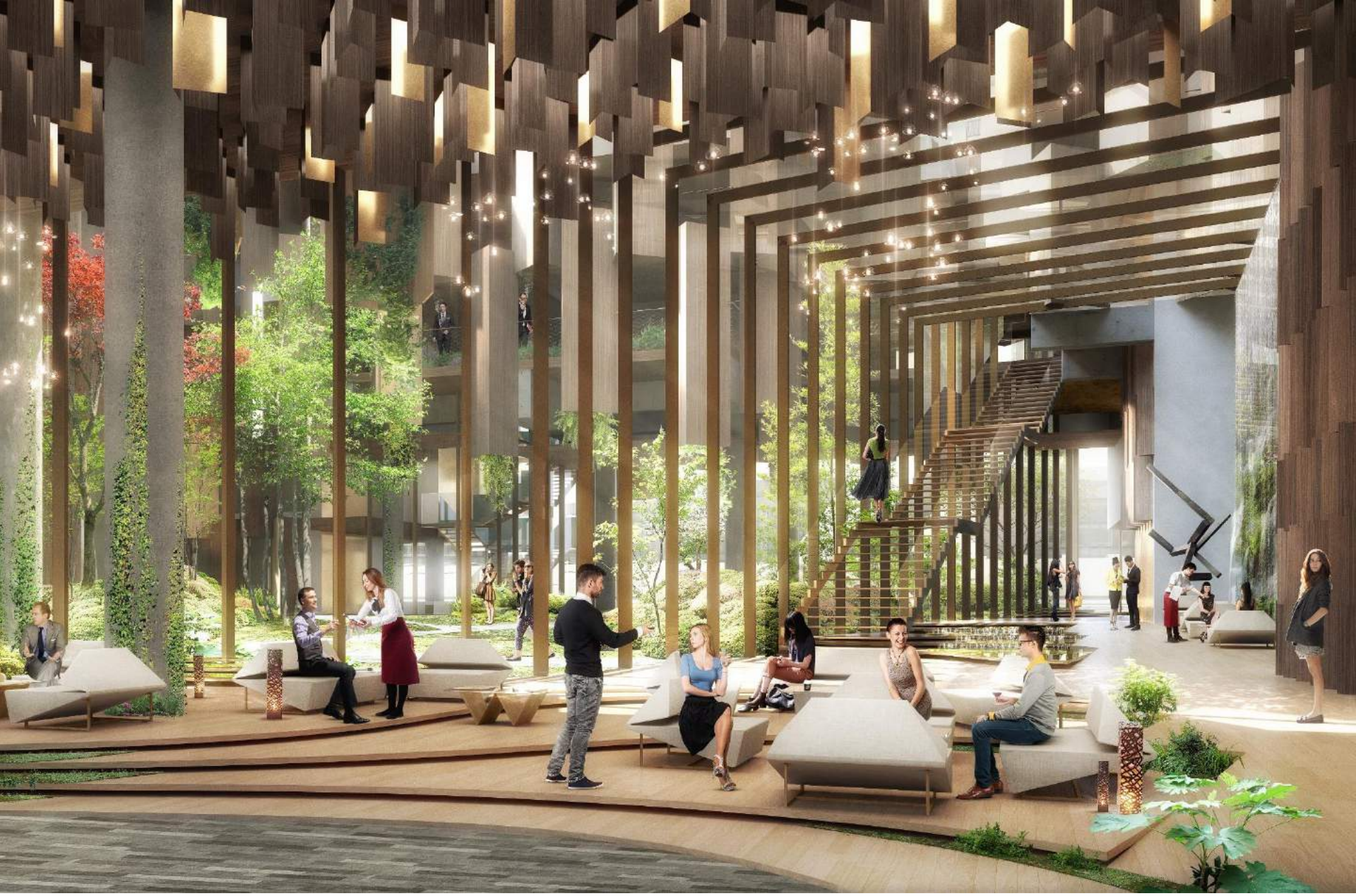


Structure

Isolation - waterproofing

Openings

Wooden skin



1Hotel Paris

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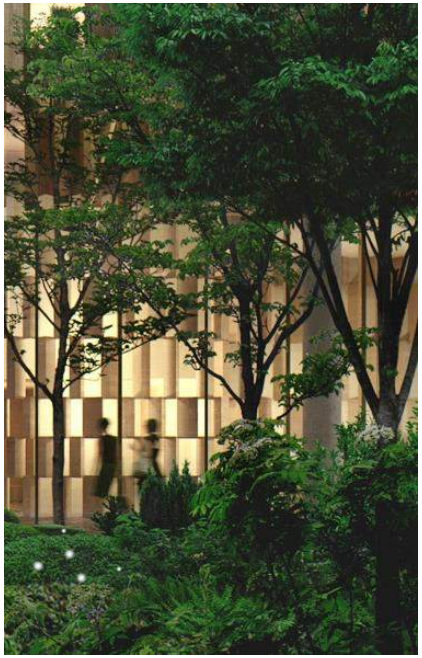

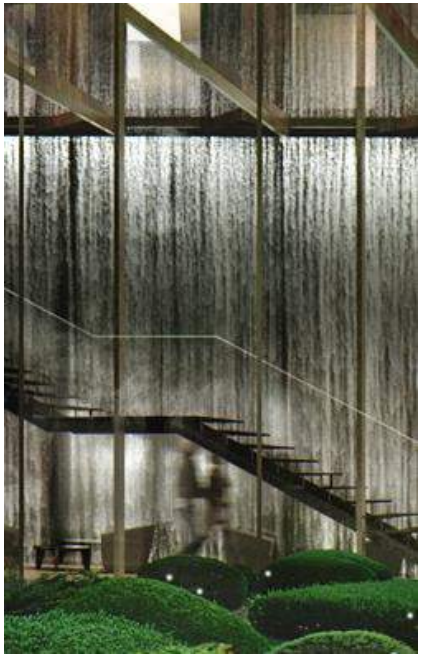

The Cycle

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13-14 juin 2017

KENGO KUMA & ASSOCIATES